

C681.2085  
C6  
1966

# BONNEY

*"ONLY THE BEST"*

# TOOLS



#### IMPORTANT CHANGE of LIST PRICES.

Effective Aug. 15th, 1923, all list prices on Drop Forged End Wrenches pages 6-33 inclusive, Catalog No. 23 are doubled. This includes canvas cases, leatherette rolls, display boards, etc. New discounts apply against the higher list prices.

BONNEY FORGE & TOOL WORKS.

## CATALOG NO:23

Armstrong Bros Tool Co Chicago

P. Keystone Mfg Co Buffalo N.Y.

A. J. Hendrickson & Co. Wilmington Del.

Sept. 21-17-25  
Duct or drop forged  
= 62 1/2 + 10% off  
Double List

S.-wrenches 25% off

C 621.9085  
B558c  
no. 23, 1923

# Bonney Forge & Tool Works

Allentown, Pennsylvania, U. S. A.

Catalog No. 23



Philadelphia Office:  
405-406 Stephen Girard Building

Factory Cable Address:  
"Bonnevise," Allentown, Western Union Code

BONNEY FORGE & TOOL WORKS *Allentown, Pa.*

Copyright, 1922  
BONNEY FORGE & TOOL WORKS  
ALLENTOWN, PENNA.





## **Terms**

Invoices payable only in New York City par funds with no allowance for exchange.

All goods delivered F. O. B. cars Allentown without charge for packing, except special packing for export.

An additional charge will be made on all shipments direct from factory to dealer's customer, also all parcel post or small express shipments. This charge will not apply on orders for repairs or parts.

A handling charge of 10% will be made on all goods returned except when, in our judgment, the goods are defective.

Any promises or commitments in relation to quotations or orders are subject to any acts or demands of the United States Government, and to strikes, fires, accidents, freight embargoes, car shortage, labor shortage and all other causes beyond our control, and no liability will be incurred by us for damages resulting from delay or failure in deliveries due to any of said causes.

Printed matter and electrotypes of stock goods furnished customers without charge.

---

List prices used in this catalog should not be construed as resale prices, because there may be instances where, owing to present conditions, it may be found necessary to equal or exceed the prices herein shown.

---

### **BONNEY FORGE & TOOL WORKS**

Title changed from Bonney Vise & Tool Works, Inc., Feb. 8, 1921

**ALLENTOWN, PA., U. S. A.**

[3]



HOME OF "ONLY THE BEST" TOOLS



BONNEY FORGE AND TOOL WORKS  
ALLENTOWN, PENNSYLVANIA

**DESCRIPTION OF FINISHES**  
**BONNEY DROP-FORGED WRENCHES**



**UNFINISHED** Wrench Forgings are milled only, not hardened.



**SEMI-FINISHED** Wrench Forgings are milled, hardened, the body finished in a pleasing black enamel, and ends are polished.

*We particularly recommend and suggest this finish.*

*In ordering, be sure to specify finish desired. When no finish is specified, we ship Semi-finished Wrenches.*



**FINISHED** Wrench Forgings are milled, polished all over, case hardened, given a black satin finish and lacquered, heads bright.

Special millings to other standards and openings *not* listed, to order.



## SINGLE END ENGINEERS' WRENCHES

DROP FORGED



For U. S. Standard Hexagon Nuts Drop-Forged of Bar Steel  
15° Angle

No.	For U. S. Standard Nut; Size Bolt	Opening Milled	Extreme Length	Thickness Head	PRICE EACH			No.
					Unfin- ished	Semi- finished	Finished	
00	$\frac{1}{8}$	$\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{1}{8}$	\$0.09	\$0.14	\$0.22	00
0	$\frac{1}{4}$	$\frac{1}{4}$	2 $\frac{1}{2}$	$\frac{1}{4}$	.10	.15	.25	0
1	$\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{1}{2}$	$\frac{3}{8}$	.12	.18	.28	1
2	$\frac{1}{2}$	$\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{1}{2}$	.15	.22	.32	2
3	$\frac{5}{8}$	$\frac{5}{8}$	5 $\frac{1}{2}$	$\frac{5}{8}$	.18	.26	.38	3
4	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{1}{2}$	$\frac{3}{4}$	.22	.32	.45	4
5	$\frac{7}{8}$	$\frac{7}{8}$	7 $\frac{1}{2}$	$\frac{7}{8}$	.26	.38	.54	5
6	$\frac{1}{2}$	$\frac{1}{2}$	8 $\frac{1}{2}$	$\frac{1}{2}$	.31	.46	.65	6
7	$\frac{1}{2}$	1 $\frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{2}$	.40	.57	.82	7
8	$\frac{1}{2}$	1 $\frac{1}{8}$	11 $\frac{1}{2}$	$\frac{1}{2}$	.55	.75	1.05	8
9	$\frac{1}{2}$	1 $\frac{1}{8}$	13	$\frac{1}{2}$	.85	1.15	1.52	9
10	1	1 $\frac{1}{8}$	14 $\frac{1}{2}$	$\frac{1}{2}$	1.20	1.60	2.10	10
11	1 $\frac{1}{2}$	1 $\frac{1}{8}$	16 $\frac{1}{2}$	$\frac{1}{2}$	1.65	2.10	2.80	11
12	1 $\frac{1}{2}$	2	18 $\frac{1}{2}$	$\frac{1}{2}$	2.20	2.85	3.70	12
13	1 $\frac{1}{2}$	2 $\frac{1}{8}$	20	1	2.80	3.65	4.70	13
14	1 $\frac{1}{2}$	2 $\frac{1}{8}$	22	1 $\frac{1}{8}$	3.45	4.60	5.80	14
15	1 $\frac{1}{2}$	2 $\frac{1}{8}$	24	1 $\frac{1}{8}$	4.15	5.60	7.10	15
16	1 $\frac{1}{2}$	2 $\frac{1}{8}$	25 $\frac{1}{2}$	1 $\frac{1}{8}$	4.90	6.70	8.50	16
16 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{8}$	27	1 $\frac{1}{8}$	4.90	6.70	8.50	16 $\frac{1}{2}$
17	2	3 $\frac{1}{8}$	29 $\frac{1}{2}$	1 $\frac{1}{2}$	7.50	10.25	13.00	17
18	2 $\frac{1}{2}$	3 $\frac{1}{8}$	33	1 $\frac{1}{2}$	11.50	14.75	18.00	18
19	2 $\frac{1}{2}$	3 $\frac{1}{8}$	37	1 $\frac{1}{2}$	17.00	21.00	25.00	19
19 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{8}$	39	1 $\frac{1}{2}$	17.00	21.00	25.00	19 $\frac{1}{2}$
20	3	4 $\frac{1}{8}$	41	1 $\frac{1}{2}$	25.00	31.00	37.00	20
20A	3 $\frac{1}{2}$	5	43	1 $\frac{1}{2}$	25.00	31.00	37.00	20A
20B	3 $\frac{1}{2}$	5 $\frac{1}{8}$	51	1 $\frac{1}{2}$	40.00	52.00	64.00	20B
20C	3 $\frac{1}{2}$	5 $\frac{1}{8}$	51	1 $\frac{1}{2}$	40.00	52.00	64.00	20C
20D	4	6 $\frac{1}{8}$	53	1 $\frac{1}{2}$	40.00	52.00	64.00	20D
20E	4 $\frac{1}{2}$	6 $\frac{1}{8}$	53	1 $\frac{1}{2}$	80.00	102.00	124.00	20E
20F	5	7 $\frac{1}{8}$	53	1 $\frac{1}{2}$	80.00	102.00	124.00	20F

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



# BONNEY FORGE & TOOL WORKS *Allentown, Pa.*

## DOUBLE END ENGINEERS' WRENCHES

DROP FORGED



For U. S. Standard Hexagon Nuts. Drop-Forged of Bar Steel.  
15° Angle.

No.	For U. S. Standard Nuts; Size Bolts	Openings Milled	Ex- treme Length	Thickness Head	PRICE EACH			No.
					Unfin- ished	Semi- finished	Fin- ished	
21	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	3 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	\$0.12	\$0.17	\$0.20	21
22	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	4	$\frac{1}{8}$ & $\frac{3}{8}$	.14	.21	.32	22
23	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	4	$\frac{1}{8}$ & $\frac{3}{8}$	.14	.21	.32	23
24	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	4 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.17	.25	.38	24
25	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	4 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.17	.25	.38	25
26	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	5 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.21	.31	.40	26
27	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	5 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.21	.31	.40	27
28	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	6 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.25	.37	.50	28
29	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	6 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.25	.37	.50	29
30	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	7 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.30	.45	.68	30
31	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	7 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.30	.45	.68	31
32	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	8 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.37	.55	.85	32
33	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	8 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.37	.55	.85	33
34	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	9 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.46	.68	1.08	34
35	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	9 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.46	.68	1.08	35
36	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	11 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.66	.96	1.40	36
37	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	11 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	.66	.96	1.40	37
38	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	13 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	1.00	1.40	1.90	38
39	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	13 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	1.00	1.40	1.90	39
40	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	15 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	1.40	1.90	2.60	40
41	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	15 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	1.40	1.90	2.60	41
42	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	17	$\frac{1}{8}$ & $\frac{3}{8}$	1.90	2.65	3.50	42
43	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	17	$\frac{1}{8}$ & $\frac{3}{8}$	1.90	2.65	3.50	43
44	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	19	$\frac{1}{8}$ & $\frac{3}{8}$	2.00	3.60	4.70	44
45	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	19	$\frac{1}{8}$ & $\frac{3}{8}$	2.00	3.60	4.70	45
46	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	21	$\frac{1}{8}$ & $\frac{3}{8}$	3.80	5.25	6.70	46
47	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	21	$\frac{1}{8}$ & $\frac{3}{8}$	3.80	5.25	6.70	47
48	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	23	$\frac{1}{8}$ & $\frac{3}{8}$	5.20	7.00	8.80	48
49	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	23	$\frac{1}{8}$ & $\frac{3}{8}$	5.20	7.00	8.80	49
50	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	25	$\frac{1}{8}$ & $\frac{3}{8}$	6.75	9.00	11.25	50
51	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	25	$\frac{1}{8}$ & $\frac{3}{8}$	7.40	9.90	12.40	51
52	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	27	$\frac{1}{8}$ & $\frac{3}{8}$	8.35	11.00	13.65	52
53	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	27	$\frac{1}{8}$ & $\frac{3}{8}$	9.00	12.00	15.00	53
53 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	29	$\frac{1}{8}$ & $\frac{3}{8}$	10.00	13.00	16.00	53 $\frac{1}{2}$
54	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	31 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	11.00	14.25	17.50	54
55	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	32 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	12.00	15.50	19.00	55
55 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	33	$\frac{1}{8}$ & $\frac{3}{8}$	13.50	17.00	20.50	55 $\frac{1}{2}$
56	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	34	$\frac{1}{8}$ & $\frac{3}{8}$	10.00	20.00	24.00	56
56 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	35	$\frac{1}{8}$ & $\frac{3}{8}$	17.00	21.00	25.00	56 $\frac{1}{2}$
57	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	36	$\frac{1}{8}$ & $\frac{3}{8}$	18.50	23.50	29.50	57
57 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{3}{8}$	37	$\frac{1}{8}$ & $\frac{3}{8}$	23.00	28.00	33.00	57 $\frac{1}{2}$

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.

Wrenches for S. A. E. Standard Nuts and Cap Screws—See Page 9

[7





## SINGLE HEAD WRENCHES

DROP FORGED



For Hexagon Cap Screws  
15° Angle

All stock wrenches are milled to fit standard Hexagon cap screws.  
Larger or special sizes milled to order.

No.	For Hex. Head Cap Screw Diameter of Screws	Openings Finished	Length	Thick-ness of Head	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
700	$\frac{1}{8}$	$\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{1}{2}$	\$0.10	<b>\$0.15</b>	\$0.25	700
701	$\frac{1}{4}$	$\frac{1}{8}$	3 $\frac{1}{2}$	$\frac{1}{4}$	.12	<b>.18</b>	.28	701
701A	$\frac{1}{4}$	$\frac{1}{8}$	3 $\frac{1}{2}$	$\frac{1}{4}$	.12	<b>.18</b>	.28	701A
702	$\frac{3}{8}$	$\frac{1}{8}$	4 $\frac{1}{2}$	$\frac{3}{8}$	.15	<b>.22</b>	.32	702
703	$\frac{1}{2}$	$\frac{1}{8}$	5 $\frac{1}{2}$	$\frac{1}{2}$	.18	<b>.26</b>	.38	703
704	$\frac{5}{8}$	$\frac{1}{8}$	6 $\frac{1}{2}$	$\frac{5}{8}$	.22	<b>.32</b>	.45	704
705	$\frac{3}{4}$	$\frac{1}{8}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.26	<b>.38</b>	.54	705
705A	$\frac{3}{4}$	$\frac{1}{8}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.26	<b>.38</b>	.54	705A
706	$\frac{7}{8}$	1	8 $\frac{1}{2}$	$\frac{7}{8}$	.31	<b>.46</b>	.63	706
707	1	1 $\frac{1}{8}$	9 $\frac{1}{2}$	1	.40	<b>.57</b>	.82	707
708	1 $\frac{1}{8}$	1 $\frac{1}{8}$	11 $\frac{1}{2}$	1 $\frac{1}{8}$	.55	<b>.75</b>	1.05	708
708A	1 $\frac{1}{8}$	1 $\frac{1}{8}$	11 $\frac{1}{2}$	1 $\frac{1}{8}$	.55	<b>.75</b>	1.05	708A
709	1 $\frac{1}{4}$	1 $\frac{1}{4}$	13	1 $\frac{1}{4}$	.85	<b>1.15</b>	1.52	709
710	1 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{2}$	1 $\frac{1}{2}$	1.20	<b>1.60</b>	2.10	710

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.

## DOUBLE HEAD WRENCHES

DROP FORGED



For Hexagon Cap Screws  
and S. A. E. Standard Nuts  
15° Angle

No.	For Hex. Head Cap Screws. Diameter of Screws	For S. A. E. Standard Nut	Openings Finished	Length	Thickness Head	PRICE EACH			No.
						Unfin- ished	Semi- fin- ished	Fin- ished	
721	$\frac{1}{8}$ & $\frac{1}{8}$		$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	\$0.12	\$0.17	\$0.20	721	
722	$\frac{1}{8}$ & $\frac{1}{8}$		$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.14	.21	.32	722	
723	$\frac{1}{8}$ & $\frac{1}{8}$		$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.14	.21	.32	723	
723A	$\frac{1}{8}$ & $\frac{1}{8}$		$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.14	.21	.32	723A	
724	$\frac{1}{8}$ & $\frac{1}{8}$		$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.17	.25	.38	724	
725	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.17	.25	.38	725	
725A	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.17	.25	.38	725A	
725B	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.17	.25	.38	725B	
726	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.21	.31	.40	726	
727	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.21	.31	.40	727	
27C	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.21	.31	.40	27C	
728	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.25	.37	.50	728	
28S	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.25	.37	.50	28S	
729	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.25	.37	.50	729	
730	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.30	.45	.68	730	
731	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.30	.45	.68	731	
731A	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.30	.45	.68	731A	
731B	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.30	.45	.68	731B	
732	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.37	.55	.85	732	
732A	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.37	.55	.85	732A	
733	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.37	.55	.85	733	
33C	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.37	.55	.85	33C	
734	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.40	.68	1.08	734	
735	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.40	.68	1.08	735	
736	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.60	.96	1.40	736	
737	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	.60	.96	1.40	737	
738	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	1.00	1.40	1.90	738	
739	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	1.00	1.40	1.90	739	
739A	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	1.00	1.40	1.90	739A	
739B	$\frac{3}{8}$ & $\frac{3}{8}$		$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$	1.00	1.40	1.90	739B	

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



GENERAL PURPOSE WRENCHES  
DROP FORGED



22 1/2° Angle

For Carriage and Automobile Builders and for General Service in which a long, light wrench is required.

Milled regularly to dimensions shown below.

Can be milled to special combinations when required.

No.	Openings Finished Inches	Extreme Length Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
500	3/8 & 1/2	6 1/2	1/2	\$0.18	\$0.27	\$0.38	500
500A	3/8 & 7/16	6 1/2	3/4	.18	.27	.38	500A
500B	3/8 & 1/2	6 1/2	3/4	.18	.27	.38	500B
500C	3/8 & 1/2	6 1/2	3/4	.18	.27	.38	500C
501	3/8 & 1/2	7 1/2	1/2	.23	.34	.47	501
501A	3/8 & 1/2	7 1/2	1/2	.23	.34	.47	501A
501C	3/8 & 1/2	7 1/2	1/2	.23	.34	.47	501C
501D	3/8 & 1/2	7 1/2	1/2	.23	.34	.47	501D
502	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502
502A	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502A
502B	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502B
502C	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502C
502D	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502D
502E	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502E
502F	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502F
502G	3/8 & 1/2	8 1/2	1/2	.29	.43	.58	502G
503	3/8 & 1/2	9 1/2	1/2	.38	.55	.72	503
503A	3/8 & 1/2	9 1/2	1/2	.38	.55	.72	503A
503B	3/8 & 1/2	9 1/2	1/2	.38	.55	.72	503B
503C	3/8 & 1/2	9 1/2	1/2	.38	.55	.72	503C
503D	3/8 & 1/2	9 1/2	1/2	.38	.55	.72	503D
503E	3/8 & 1/2	9 1/2	1/2	.38	.55	.72	503E
504	3/8 & 1	10 1/2	1/2	.50	.70	.90	504
504A	3/8 & 1	10 1/2	1/2	.50	.70	.90	504A
504B	3/8 & 1 1/8	10 1/2	1/2	.50	.70	.90	504B
504C	3/8 & 1 1/8	10 1/2	1/2	.50	.70	.90	504C
504D	3/8 & 1 1/8	10 1/2	1/2	.50	.70	.90	504D
505	1 & 1 1/8	12	3/4	.70	1.00	1.30	505
505A	1 & 1 1/8	12	3/4	.70	1.00	1.30	505A
505B	1 1/8 & 1 1/4	12	3/4	.70	1.00	1.30	505B
505C	1 1/8 & 1 1/4	12	3/4	.70	1.00	1.30	505C

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.





## THIN CHECK NUT WRENCHES DROP FORGED



"Thin" Double Head, 15° Angle

No.	For U. S. Standard Nuts; Size Bolts	S. A. E. Standard Nut	Openings, Milled	Length	Thickness Head	PRICE EACH			No.
						Un- fin- ished	Semi- Fin- ished	Fin- ished	
819	$\frac{1}{8}$ & $\frac{1}{4}$	& $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	\$0.17	\$0.25	\$0.38	819
819A		& $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.38	819A
819B	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.38	819B
819C	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.38	819C
820	$\frac{1}{8}$ & $\frac{1}{4}$		$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.38	820
821	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.38	821
821A		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$4\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.38	821A
822	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$5\frac{1}{2}$	$\frac{1}{2}$	.22	.32	.48	822
822A		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$5\frac{1}{2}$	$\frac{1}{2}$	.22	.32	.48	822A
822B	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$5\frac{1}{2}$	$\frac{1}{2}$	.22	.32	.48	822B
823	$\frac{1}{4}$ & $\frac{1}{2}$		$\frac{1}{2}$ & $\frac{3}{4}$	$5\frac{1}{2}$	$\frac{1}{2}$	.22	.32	.48	823
823A		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$5\frac{1}{2}$	$\frac{1}{2}$	.22	.32	.48	823A
824	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$5\frac{1}{2}$	$\frac{1}{2}$	.22	.32	.48	824
825	$\frac{3}{8}$ & $\frac{1}{2}$		$\frac{1}{2}$ & $\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	.28	.40	.60	825
825A		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	.28	.40	.60	825A
825B	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	.28	.40	.60	825B
825C	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	.28	.40	.60	825C
826	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	.28	.40	.60	826
827	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{2}$	.28	.40	.60	827
828	$\frac{1}{2}$ & $\frac{1}{2}$		$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{1}{2}$	.40	.56	.80	828
828A		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{1}{2}$	.40	.56	.80	828A
829	$\frac{3}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{1}{2}$	.40	.56	.80	829
830	$\frac{3}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$8\frac{1}{2}$	$\frac{1}{2}$	.40	.56	.80	830
831	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$10\frac{1}{2}$	$\frac{1}{2}$	.60	.84	1.15	831
831A		$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$10\frac{1}{2}$	$\frac{1}{2}$	.60	.84	1.15	831A
831B	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$10\frac{1}{2}$	$\frac{1}{2}$	.60	.84	1.15	831B
832	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$10\frac{1}{2}$	$\frac{1}{2}$	.60	.84	1.15	832
833	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$10\frac{1}{2}$	$\frac{1}{2}$	.60	.84	1.15	833
834	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$12\frac{1}{2}$	$\frac{1}{2}$	1.00	1.30	1.75	834
835	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$12\frac{1}{2}$	$\frac{1}{2}$	1.00	1.30	1.75	835
836	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$12\frac{1}{2}$	$\frac{1}{2}$	1.00	1.30	1.75	836

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.

## TEXTILE MACHINE WRENCHES

DROP FORGED



Double Head, 22½° Angle

For U. S. Standard Nuts, Hex. and Square, also for Cap Screws and S. A. E. Standard

No.	U. S. Standard Bolt Size	Hex. Head Cap Screw Size	S. A. E. Standard Screw and Nut	Openings, Milled	Ex-treme Length	Thick-ness Heads	PRICE			No.
							Un-finished	Semi-Fin-ished	Fin-ished	
550	1/4"	1/4"	1/4"	1/4"	4 1/2"	1/8"	\$0.17	\$0.25	\$0.38	550
550A	1/4"	1/4"	1/4"	1/4"	4 1/2"	1/8"	.17	.25	.38	550A
550B	1/4"	1/4"	1/4"	1/4"	4 1/2"	1/8"	.17	.25	.38	550B
550C	1/4"	1/4"	1/4"	1/4"	4 1/2"	1/8"	.17	.25	.38	550C
550AS	1/4"	1/4"	1/4"	1/4"	4 1/2"	1/8"	.17	.25	.38	550AS
551	5/16"	5/16"	5/16"	5/16"	5 1/2"	1/8"	.21	.31	.46	551
551A	5/16"	5/16"	5/16"	5/16"	5 1/2"	1/8"	.21	.31	.46	551A
551B	5/16"	5/16"	5/16"	5/16"	5 1/2"	1/8"	.21	.31	.46	551B
551C	5/16"	5/16"	5/16"	5/16"	5 1/2"	1/8"	.21	.31	.46	551C
551AS	5/16"	5/16"	5/16"	5/16"	5 1/2"	1/8"	.21	.31	.46	551AS
552	3/8"	3/8"	3/8"	3/8"	7"	1/8"	.27	.40	.60	552
552A	3/8"	3/8"	3/8"	3/8"	7"	1/8"	.27	.40	.60	552A
552B	3/8"	3/8"	3/8"	3/8"	7"	1/8"	.27	.40	.60	552B
552C	3/8"	3/8"	3/8"	3/8"	7"	1/8"	.27	.40	.60	552C
552AS	3/8"	3/8"	3/8"	3/8"	7"	1/8"	.27	.40	.60	552AS
553	1/2"	1/2"	1/2"	1/2"	8 1/2"	1/8"	.36	.53	.78	553
553A	1/2"	1/2"	1/2"	1/2"	8 1/2"	1/8"	.36	.53	.78	553A
553B	1/2"	1/2"	1/2"	1/2"	8 1/2"	1/8"	.36	.53	.78	553B
553C	1/2"	1/2"	1/2"	1/2"	8 1/2"	1/8"	.36	.53	.78	553C
553AS	1/2"	1/2"	1/2"	1/2"	8 1/2"	1/8"	.36	.53	.78	553AS
554	5/8"	5/8"	5/8"	5/8"	9 1/2"	1/8"	.60	.72	1.05	554
554A	5/8"	5/8"	5/8"	5/8"	9 1/2"	1/8"	.60	.72	1.05	554A
554B	5/8"	5/8"	5/8"	5/8"	9 1/2"	1/8"	.60	.72	1.05	554B
554C	5/8"	5/8"	5/8"	5/8"	9 1/2"	1/8"	.60	.72	1.05	554C
554D	5/8"	5/8"	5/8"	5/8"	9 1/2"	1/8"	.60	.72	1.05	554D
554AS	5/8"	5/8"	5/8"	5/8"	9 1/2"	1/8"	.60	.72	1.05	554AS
555	3/4"	3/4"	3/4"	3/4"	11"	1/8"	.68	.96	1.40	555
555A	3/4"	3/4"	3/4"	3/4"	11"	1/8"	.68	.96	1.40	555A
555AS	3/4"	3/4"	3/4"	3/4"	11"	1/8"	.68	.96	1.40	555AS

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.

## DOUBLE HEAD "S" WRENCHES

DROP FORGED



For U. S. Standard Nuts, 22½° Angle

### A SHORT HEAVY TOOL FOR HARD USAGE

In Stock with openings for U. S. Standard Finished Nuts; A. L. A. M., S. A. E. and Whitworth Standard also Metric Measure to order.

Number	For U. S. Standard Nuts; Size Bolts	Openings, Milled	Extreme Length	Thickness Heads	PRICE EACH			Number
					Un-finished	Semi-finished	Finished	
661A	1" x 1/2"	1 1/2" x 1 1/2"	4	1/2"	\$0.15	\$0.22	\$0.32	661A
661B	1" x 3/4"	1 3/4" x 1 3/4"	4	3/4"	.15	.22	.32	661B
661C	1" x 1"	1 1/2" x 1 1/2"	4	1"	.15	.22	.32	661C
662A	1 1/4" x 1/2"	1 3/4" x 1 3/4"	5	1/2"	.20	.29	.42	662A
662B	1 1/4" x 3/4"	1 3/4" x 1 3/4"	5	3/4"	.20	.29	.42	662B
662C	1 1/4" x 1"	1 3/4" x 1 3/4"	5	1"	.20	.29	.42	662C
663A	1 1/2" x 1/2"	1 3/4" x 1 3/4"	6 1/2"	1"	.27	.39	.56	663A
663B	1 1/2" x 3/4"	1 3/4" x 1 3/4"	6 1/2"	1 1/4"	.27	.39	.56	663B
663C	1 1/2" x 1"	1 3/4" x 1 3/4"	6 1/2"	1 1/2"	.27	.39	.56	663C
664A	1 3/4" x 1/2"	1 3/4" x 1 3/4"	7 1/2"	1 1/4"	.37	.53	.75	664A
664B	1 3/4" x 3/4"	1 3/4" x 1 3/4"	7 1/2"	1 1/2"	.37	.53	.75	664B
664C	1 3/4" x 1"	1 3/4" x 1 3/4"	7 1/2"	1 3/4"	.37	.53	.75	664C
665A	1 3/4" x 1/2"	1 3/4" x 1 3/4"	9	1 1/4"	.50	.72	1.00	665A
665B	1 3/4" x 3/4"	1 3/4" x 1 3/4"	9	1 1/2"	.50	.72	1.00	665B
665C	1 3/4" x 1"	1 3/4" x 1 3/4"	9	1 3/4"	.50	.72	1.00	665C
666A	1 3/4" x 1/2"	1 3/4" x 1 3/4"	10 1/2"	1 1/4"	.74	1.00	1.35	666A
666B	1 3/4" x 3/4"	1 3/4" x 1 3/4"	10 1/2"	1 1/2"	.74	1.00	1.35	666B
666C	1 3/4" x 1"	1 3/4" x 1 3/4"	10 1/2"	1 3/4"	.74	1.00	1.35	666C
667A	1 3/4" x 1/2"	1 3/4" x 1 3/4"	12	1 1/4"	1.10	1.45	1.90	667A
667B	1 3/4" x 3/4"	1 3/4" x 1 3/4"	12	1 1/2"	1.10	1.45	1.90	667B
667C	1 3/4" x 1"	1 3/4" x 1 3/4"	12	1 3/4"	1.10	1.45	1.90	667C
668A	1 3/4" x 1/2"	1 3/4" x 1 3/4"	14	1 1/4"	1.90	2.50	3.20	668A
668B	1 3/4" x 3/4"	1 3/4" x 1 3/4"	14	1 1/2"	1.90	2.50	3.20	668B
668C	1 3/4" x 1"	1 3/4" x 1 3/4"	14	1 3/4"	1.90	2.50	3.20	668C

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



## DOUBLE HEAD "S" WRENCHES

DROP FORGED



For Hexagon Head Cap Screws,  
22½° Angle

In stock with openings milled for Hexagon Head Cap Screws; Whitworth Standard and Metric Measure to order. Openings for U. S. Standard Nuts, Square Head.

Num- ber	For Hexagon Head Cap Screws; Diameter Screws	Openings, Milled	Extreme Length	Thickness Heads	PRICE EACH			Num- ber
					Un- finished	Semi- finished	Fin- ished	
671A	1/8" x 1/8"	1/8" x 1/8"	4	1/8"	\$0.15	\$0.22	\$0.32	671A
671B	1/8" x 1/8"	1/8" x 1/8"	4	1/8"	.15	.22	.32	671B
671C	1/8" x 1/8"	1/8" x 1/8"	4	1/8"	.15	.22	.32	671C
671D	1/8" x 1/8"	1/8" x 1/8"	4	1/8"	.15	.22	.32	671D
672A	1/8" x 1/8"	1/8" x 1/8"	5	1/8"	.20	.29	.42	672A
672B	1/8" x 1/8"	1/8" x 1/8"	5	1/8"	.20	.29	.42	672B
672C	1/8" x 1/8"	1/8" x 1/8"	5	1/8"	.20	.29	.42	672C
672D	1/8" x 1/8"	1/8" x 1/8"	5	1/8"	.20	.29	.42	672D
673A	1/8" x 1/8"	1/8" x 1/8"	6 1/2	1/8"	.27	.39	.50	673A
673B	1/8" x 1/8"	1/8" x 1/8"	6 1/2	1/8"	.27	.39	.50	673B
673C	1/8" x 1/8"	1/8" x 1/8"	6 1/2	1/8"	.27	.39	.50	673C
673D	1/8" x 1/8"	1/8" x 1/8"	6 1/2	1/8"	.27	.39	.50	673D
674A	1/8" x 1/8"	1/8" x 1/8"	7 1/2	1/8"	.37	.53	.75	674A
674B	1/8" x 1/8"	1/8" x 1/8"	7 1/2	1/8"	.37	.53	.75	674B
674C	1/8" x 1/8"	1/8" x 1/8"	7 1/2	1/8"	.37	.53	.75	674C
675A	1/8" x 1/8"	1/8" x 1/8"	9	1/8"	.50	.72	1.00	675A
675B	1/8" x 1/8"	1/8" x 1/8"	9	1/8"	.50	.72	1.00	675B
675C	1/8" x 1/8"	1/8" x 1/8"	9	1/8"	.50	.72	1.00	675C
675D	1/8" x 1/8"	1/8" x 1/8"	9	1/8"	.50	.72	1.00	675D
676A	1/8" x 1/8"	1/8" x 1/8"	10 1/2	1/8"	.74	1.00	1.35	676A
676B	1/8" x 1/8"	1/8" x 1/8"	10 1/2	1/8"	.74	1.00	1.35	676B
676C	1/8" x 1/8"	1/8" x 1/8"	10 1/2	1/8"	.74	1.00	1.35	676C
677A	1/8" x 1/8"	1/8" x 1/8"	12	1/8"	1.10	1.45	1.80	677A
677B	1/8" x 1/8"	1/8" x 1/8"	12	1/8"	1.10	1.45	1.80	677B
677C	1/8" x 1/8"	1/8" x 1/8"	12	1/8"	1.10	1.45	1.80	677C

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



## DOUBLE HEAD "S" WRENCHES

DROP FORGED



For Set Screws and Square Head Cap Screws,  
22½° Angle

In stock with openings for Set Screws and Square Head Screws;  
Whitworth Standard and Metric Measure to order.

Num- ber	For Set Screws; Sizes	For Square Head Cap Screws; Diameter Screws	Openings, Milled	Extreme Length	Thick- ness, Heads	PRICE EACH			Num- ber
						Un- finished	Semi- finished	Fin- ished	
681A	1 1/2	1/4	1/4	4	1/8	80 15	\$0.22	80 34	681A
681B	1 1/2	1/4	1/4	4	1/8	15	.22	34	681B
681C	1 1/2	1/4	1/4	4	1/8	15	.22	34	681C
681D	1 1/2	1/4	1/4	4	1/8	15	.22	34	681D
682A	1 1/2	1/4	1/4	5	1/8	90	.25	42	682A
682B	1 1/2	1/4	1/4	5	1/8	90	.25	42	682B
682C	1 1/2	1/4	1/4	5	1/8	90	.25	42	682C
682D	1 1/2	1/4	1/4	5	1/8	90	.25	42	682D
683A	1 1/2	1/4	1/4	6	1/8	27	.39	56	683A
683B	1 1/2	1/4	1/4	6	1/8	27	.39	56	683B
683C	1 1/2	1/4	1/4	6	1/8	27	.39	56	683C
683D	1 1/2	1/4	1/4	6	1/8	27	.39	56	683D
684H	1 1/2	1/4	1/4	7	1/8	97	.53	75	684H
684B	1 1/2	1/4	1/4	7	1/8	97	.53	75	684B
684K	1 1/2	1/4	1/4	7	1/8	97	.53	75	684K
684C	1 1/2	1/4	1/4	7	1/8	97	.53	75	684C
684D	1 1/2	1/4	1/4	7	1/8	97	.53	75	684D
685A	1 1/2	1/4	1/4	8	1/8	50	.72	1 00	685A
685B	1 1/2	1/4	1/4	8	1/8	50	.72	1 00	685B
685C	1 1/2	1/4	1/4	8	1/8	50	.72	1 00	685C
686A	1 1/2	1/4	1/4	10	1/8	74	1.00	1 35	686A
686B	1 1/2	1/4	1/4	10	1/8	74	1.00	1 35	686B
686C	1 1/2	1/4	1/4	10	1/8	74	1.00	1 35	686C
686D	1 1/2	1/4	1/4	10	1/8	74	1.00	1 35	686D
686E	1 1/2	1/4	1/4	10	1/8	74	1.00	1 35	686E
687A	1 1/2	1/4	1/4	12	1/8	1 10	1.45	1 90	687A
687B	1 1/2	1/4	1/4	12	1/8	1 10	1.45	1 90	687B
687C	1 1/2	1/4	1/4	12	1/8	1 10	1.45	1 90	687C
688A	1 1/2	1/4	1/4	14	1/8	1 90	2.50	3 20	688A
688B	1 1/2	1/4	1/4	14	1/8	1 90	2.50	3 20	688B

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



## DOUBLE HEAD SET SCREW WRENCHES

DROP FORGED



22 1/2° Angle

No.	Set Screw Sizes	Extreme Length	Thickness of Heads	PRICE EACH			No.
				Un-finished	Semi-finished	Finished	
65	1/8" & 1/8"	3 1/2"	1/8"	\$0.14	\$0.20	\$0.30	65
66	1/8" & 1/8"	3 1/2"	1/8"	.16	.24	.35	66
67	1/8" & 1/8"	4 1/2"	1/8"	.16	.24	.35	67
68	1/8" & 1/8"	4 1/2"	1/8"	.19	.29	.42	68
69	1/8" & 1/8"	5 1/8"	1/8"	.19	.29	.42	69
70	1/8" & 1/8"	5 1/8"	1/8"	.24	.35	.52	70
71	1/8" & 1/8"	6 1/8"	1/8"	.24	.35	.52	71
72	1/8" & 1/8"	6 1/8"	1/8"	.30	.45	.66	72
73	1/8" & 1/8"	6 1/8"	1/8"	.30	.45	.66	73
74	1/8" & 1/8"	6 1/8"	1/8"	.30	.54	.80	74
75	1/8" & 1/8"	7 1/8"	1/8"	.30	.54	.80	75
76	1/8" & 1/8"	7 1/8"	1/8"	.44	.65	.90	76
77	1/8" & 1/8"	9 1/8"	1/8"	.44	.65	.90	77
78	1/8" & 1/8"	9 1/8"	1/8"	.56	.80	1.15	78
79	1/8" & 1/8"	10 1/8"	1/8"	.56	.80	1.15	79
80	1/8" & 1/8"	10 1/8"	1/8"	.72	1.00	1.40	80
81	1/8" & 1/8"	12 1/8"	1/8"	.72	1.00	1.40	81
82	1/8" & 1"	12 1/8"	1/8"	.98	1.30	1.75	82
83	1/8" & 1"	12 1/8"	1/8"	.98	1.30	1.75	83
84	1/8" & 1 1/8"	12 1/8"	1/8"	1.35	1.75	2.25	84

## TRIPLE HEAD WRENCHES

DROP FORGED



No.	For U. S. Standard Nuts, Size Bolt	For Set Screws Sizes	Extreme Length	Thickness of Heads	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
894A	1/8", 1/4", 1/2"		5 1/2"	1/8"	\$0.40	\$0.56	\$0.80	894A
894B	1/8", 1/4", 1/2"		5 1/2"	1/8"	.40	.56	.80	894B
894C	1/8", 1/4", 1/2"		5 1/2"	1/8"	.40	.56	.80	894C
894D		1/8", 1/4", 1/2"	5 1/2"	1/8"	.40	.56	.80	894D
894E		1/8", 1/4", 1/2"	5 1/2"	1/8"	.40	.56	.80	894E

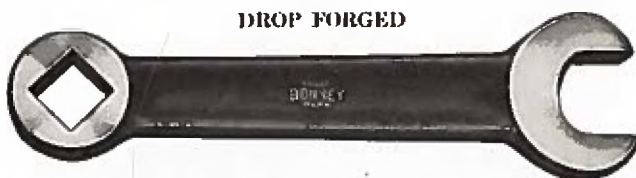
Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.





## DOUBLE HEAD TOOL POST WRENCHES

DROP FORGED



For U. S. Standard Nuts and Set Screws  
Unfinished wrenches have openings milled and holes broached

No.	Open End for U. S. Standard Nut		Closed End for Set Screw, Size	Extreme Length	Thick- ness of Heads	PRICE EACH			No.
	Size Bolt	Opening Milled				Un- finished	Semi- finished	Finished	
124	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	6 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{1}{4}$	\$0.48	\$0.66	\$0.96	124
129	$\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{2}$	7	$\frac{1}{8}$ & $\frac{1}{4}$	.52	.72	1.04	129
130	$\frac{3}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$	7	$\frac{1}{8}$ & $\frac{1}{4}$	.52	.72	1.04	130
131	$\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{2}$	7	$\frac{1}{8}$ & $\frac{1}{4}$	.52	.72	1.04	131
132	$\frac{5}{8}$	$1\frac{7}{8}$	$\frac{3}{4}$	7	$\frac{1}{8}$ & $\frac{1}{4}$	.52	.72	1.04	132
139	$\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$	7 $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{1}{4}$	.60	.82	1.10	139
140	$\frac{7}{8}$	$1\frac{7}{8}$	$\frac{3}{4}$	8	$\frac{1}{8}$ & $\frac{1}{4}$	.72	.97	1.34	140
143	$1$	$1\frac{1}{2}$	$\frac{1}{2}$	9	$\frac{1}{8}$ & $\frac{1}{4}$	.90	1.20	1.60	143
144	$1\frac{1}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$	9	$\frac{1}{8}$ & $\frac{1}{4}$	.90	1.20	1.60	144

## SINGLE HEAD SET SCREW WRENCHES

DROP FORGED



Straight Opening

Any one of these wrenches can be milled one size larger or smaller if desired

No.	For Set Screw, Size	Extreme Length	Thickness of Head	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
280	$\frac{1}{8}$	3	$\frac{1}{8}$	\$0.10	\$0.14	\$0.23	280
281	$\frac{1}{4}$	3 $\frac{1}{2}$	$\frac{1}{4}$	.12	.17	.27	281
282	$\frac{3}{8}$	4 $\frac{1}{2}$	$\frac{3}{8}$	.14	.21	.31	282
283	$\frac{1}{2}$	5 $\frac{1}{2}$	$\frac{1}{2}$	.17	.25	.37	283
284	$\frac{5}{8}$	6	$\frac{5}{8}$	.21	.31	.45	284
285	$\frac{3}{4}$	6 $\frac{1}{2}$	$\frac{3}{4}$	.26	.38	.54	285
286	$\frac{7}{8}$	7 $\frac{1}{2}$	$\frac{7}{8}$	.31	.45	.65	286
287	$1$	8	$1$	.38	.65	.80	287
288	$1\frac{1}{8}$	9	$1\frac{1}{8}$	.48	.68	.98	288
289	$1\frac{1}{4}$	10 $\frac{1}{2}$	$1\frac{1}{4}$	.60	.84	1.20	289
290	$1\frac{1}{2}$	12	$1\frac{1}{2}$	.80	1.10	1.48	290
291	$1\frac{3}{4}$	12	$1\frac{3}{4}$	1.10	1.40	1.80	291

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



**DOUBLE HEAD SET SCREW TOOL POST WRENCHES**

DROP FORGED



Holes broached. Closed end.  $22\frac{1}{2}^\circ$  angle. Open end straight.

No.	Open End for Set Screws, Size, Inches	Closed End for Set Screws, Size, Inches	Length Over All, Inches	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
201	$\frac{1}{8}$	$\frac{1}{8}$	5 $\frac{1}{2}$	\$0.40	\$0.56	\$0.80	201
202	$\frac{3}{8}$	$\frac{3}{8}$	6	.44	.62	.88	202
203	$\frac{1}{2}$	$\frac{1}{2}$	6	.44	.62	.88	203
204	$\frac{5}{8}$	$\frac{5}{8}$	6 $\frac{1}{2}$	.52	.72	1.00	204
205	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{3}{4}$	.52	.72	1.00	205
206	$\frac{7}{8}$	$\frac{7}{8}$	7 $\frac{1}{2}$	.60	.82	1.10	206

**SINGLE HEAD BOX WRENCHES**

DROP FORGED

$22\frac{1}{2}^\circ$  Angle



Unfinished Wrenches have Broached Opening

No.	For Set Screw, Size	Length	Thickness of Head	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
107	$\frac{1}{8}$	3	$\frac{1}{4}$	\$0.11	\$0.15	\$0.23	107
108	$\frac{3}{8}$	3 $\frac{1}{2}$	$\frac{3}{8}$	.12	.17	.27	108
109	$\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{1}{2}$	.14	.20	.31	109
110	$\frac{5}{8}$	4 $\frac{1}{2}$	$\frac{5}{8}$	.10	.24	.35	110
111	$\frac{3}{4}$	4 $\frac{1}{2}$	$\frac{3}{4}$	.19	.28	.40	111
112	$\frac{7}{8}$	5 $\frac{1}{2}$	$\frac{7}{8}$	.23	.34	.48	112
113	$\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{2}$	.28	.41	.58	113
114	$\frac{3}{4}$	7	$\frac{3}{4}$	.35	.50	.70	114
115	$\frac{7}{8}$	8	$\frac{7}{8}$	.44	.62	.85	115
116	$\frac{1}{2}$	9	$\frac{1}{2}$	.60	.81	1.10	116
117	1	10	1	.80	1.05	1.40	117

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



## THIN CHECK NUT WRENCHES

DROP FORGED



15° Angle, Single Head, Very Thin  
For Check, Jam or Lock Nuts

No.	For U. S. Standard Nut; Size Bolts	Opening, Milled	Extreme Length	Thickness Head	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
799	$\frac{1}{4}$	$\frac{1}{2}$	4	$\frac{3}{32}$	\$0.12	<b>\$0.18</b>	\$0.26	799
800	$\frac{3}{8}$	$\frac{1}{2}$	4 $\frac{1}{4}$	$\frac{3}{16}$	.15	.22	.32	800
801	$\frac{1}{2}$	$\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{1}{4}$	.18	.26	.38	801
802	$\frac{3}{4}$	$\frac{1}{2}$	5 $\frac{7}{8}$	$\frac{3}{8}$	.22	.32	.45	802
803	$\frac{1}{2}$	$\frac{3}{4}$	6 $\frac{5}{8}$	$\frac{1}{2}$	.20	.38	.54	803
804	$\frac{3}{4}$	$\frac{3}{4}$	7 $\frac{3}{8}$	$\frac{3}{4}$	.31	.45	.64	804
805	$\frac{1}{2}$	1 $\frac{1}{8}$	8 $\frac{1}{4}$	$\frac{1}{2}$	.38	.54	.70	805
806	$\frac{3}{4}$	1 $\frac{1}{4}$	10	$\frac{3}{4}$	.48	.68	.84	806
807	$\frac{1}{2}$	1 $\frac{1}{2}$	11 $\frac{1}{2}$	1	.68	.92	1.25	807
808	1	1 $\frac{5}{8}$	13 $\frac{1}{4}$	1 $\frac{1}{2}$	1.00	1.30	1.70	808

## DOUBLE HEAD "S" WRENCHES

DROP FORGED



22½° Angle

Number	Size of Openings, Inches	Thickness of Head, Inches	Length Over All, Inches	PRICE EACH			Number
				Unfinished	Semi-finished	Finished	
220	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{8}$	4	\$0.15	<b>\$0.22</b>	\$0.32	220
221	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{8}$	5	.27	.37	.52	221
222	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{8}$	6	.41	.57	.77	222
223	$\frac{3}{4}$ & 1	$\frac{1}{8}$	7	.57	.76	1.00	223
224	1 & 1 $\frac{1}{4}$	$\frac{1}{8}$	8	.72	.95	1.35	224
225	1 $\frac{1}{4}$ & 1 $\frac{1}{2}$	$\frac{1}{8}$	9	.90	1.20	1.65	225

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.



## DOUBLE HEAD CAR WRENCHES

DROP FORGED



22½° Angle, Long Leverage

Unfinished are milled only.

Semi-finished are milled, edges ground and case-hardened all over.  
Bright heads.

In stock for U. S. Standard nuts.

No.	For U. S. Standard Nuts; Size Bolts	Openings	Extreme Length	Thickness Heads	PRICE EACH		No.
					Un- finished	Semi- finished	
367	1/8 & 1/4	3/32 & 1/8	12	1/8 & 1/4	\$0.55	\$0.75	367
370	1/8 & 1/4	1/8 & 1/8	10	1/8 & 1/4	.95	1.25	370
371	1/8 & 1/4	1/8 & 1/8	19	1/8 & 1/4	1.15	1.55	371
373	1/8 & 1/4	1/8 & 1/8	20	1/8 & 1/4	1.15	1.55	373
374	1/8 & 1/4	1/8 & 1/8	21	1/8 & 1/4	1.35	1.85	374
376	1/8 & 1/4	1/8 & 1/8	21	1/8 & 1/4	1.35	1.85	376
377	1/8 & 1/4	1/8 & 1/8	22	1/8 & 1/4	1.65	2.25	377
379	1/8 & 1/4	1/8 & 1/8	22	1/8 & 1/4	1.65	2.25	379
380	1/8 & 1/4	1/8 & 1/8	23	1/8 & 1/4	1.95	2.65	380
382	1/8 & 1/4	1/8 & 1/8	23	1/8 & 1/4	1.95	2.65	382
383	1/8 & 1/4	1/8 & 1/8	24	1/8 & 1/4	2.25	3.15	383
385	1/8 & 1/4	1/8 & 1/8	24	1/8 & 1/4	2.25	3.15	385
387	1/8 & 1/4	1/8 & 1/8	25	1/8 & 1/4	3.40	4.50	387
389	1/8 & 1/4	2/16 & 2/16	25	1/8 & 1/4	3.40	4.50	389

Be particular when ordering to state whether unfinished or semi-finished are wanted.

## CONSTRUCTION WRENCHES AND CAR BUILDERS' WRENCHES

DROP FORGED



15° Angle

No.	For U. S. Standard Nut; Bolt Size	Openings Finished	Length	Thickness of Head	PRICE EACH		No.
					Un- finished	Semi- finished	
450	$\frac{3}{8}$	$\frac{1}{8}$	$9\frac{1}{2}$	$\frac{7}{16}$	\$0.35	\$0.45	450
451	$\frac{7}{16}$	$\frac{1}{8}$	$9\frac{1}{2}$	$\frac{7}{16}$	.35	.45	451
452	$\frac{1}{2}$	$\frac{1}{8}$	11	$\frac{1}{2}$	.45	.58	452
453	$\frac{5}{8}$	$\frac{1}{8}$	11	$\frac{1}{2}$	.45	.58	453
454	$\frac{3}{4}$	$\frac{1}{8}$	13	$\frac{1}{2}$	.62	.80	454
455	$\frac{7}{8}$	$\frac{1}{8}$	15	$\frac{1}{2}$	.80	1.10	455
456	$\frac{1}{2}$	$\frac{1}{8}$	17	$\frac{1}{2}$	1.18	1.50	456
457	1	$\frac{1}{8}$	19	$\frac{1}{2}$	1.60	2.10	457
458	$1\frac{1}{8}$	$\frac{1}{8}$	21	$\frac{1}{2}$	2.20	3.00	458
459	$1\frac{1}{4}$	$\frac{1}{8}$	21	$\frac{1}{2}$	2.20	3.00	459

## STRUCTURAL WRENCHES DROP FORGED



Straight Opening and Offset Head

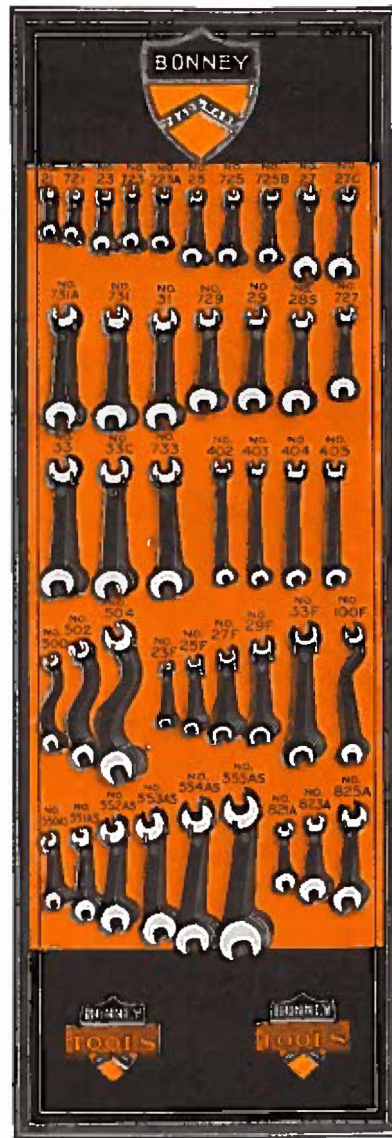
No.	For U. S. Standard Nut; Size Bolt	Opening	Extreme Length	Thickness of Head	PRICE EACH		No.
					Un- finished	Semi- finished	
480	$\frac{3}{8}$	$\frac{3}{8}$	$9\frac{1}{2}$	$\frac{7}{16}$	\$0.40	\$0.52	480
481	$\frac{7}{16}$	$\frac{3}{8}$	$9\frac{1}{2}$	$\frac{7}{16}$	.40	.52	481
482	$\frac{1}{2}$	$\frac{3}{8}$	11	$\frac{1}{2}$	.52	.70	482
483	$\frac{5}{8}$	1	11	$\frac{1}{2}$	.52	.70	483
484	$\frac{3}{4}$	$\frac{7}{8}$	13	$\frac{1}{2}$	.74	.98	484
485	$\frac{7}{8}$	$1\frac{1}{4}$	15	$\frac{1}{2}$	1.02	1.34	485
486	$\frac{1}{2}$	$\frac{1}{2}$	17	$\frac{1}{2}$	1.40	1.80	486
487	1	$1\frac{1}{2}$	19	$\frac{1}{2}$	1.00	2.50	487
488	$1\frac{1}{8}$	$1\frac{1}{8}$	21	$\frac{1}{2}$	3.00	3.75	488
489	$1\frac{1}{4}$	$2\frac{1}{8}$	21	$\frac{1}{2}$	3.00	3.75	489

Be particular when ordering to state whether unfinished or semi-finished are wanted.



**BONNEY DROP-FORGED WRENCH ASSORTMENT**

**No. 80**



Bonney No. 80 Drop-Forged Wrench Assortment is similar to Nos. 60, 65 and 70 Assortments in that the Board is sheet metal framed in wood. The Bonney color scheme of orange and black is carried out in this number as well as in the others, and the display of black wrenches against the orange background is very effective. The size of this Board—2 ft. wide x 6 ft. long, conforms to the dimensions of standard display fixtures of many other manufacturers and therefore can be used in connection with other Display Boards. This Assortment contains six each of a full range of sizes necessary for Automotive and other purposes, and furnishes not only a most attractive method of showing the Wrenches but also a very convenient method of handling stock. A chart of the Wrench numbers, openings, etc., will be found on the opposite page.

List Price, \$114.72



# BONNEY FORGE & TOOL WORKS *Allentown, Pa.*

## BONNEY DROP-FORGED WRENCH ASSORTMENT

No. 80

(Illustrated on opposite page.)

This assortment is made up of forty-two different numbers (6 of each) which include Nos. 402-403-404-405 Chrome Vanadium Thin Tappet Wrenches.

List Price, \$114.72

No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screws	Milled Opening	Ex- treme L'gth	Thick- ness Heads	List Price Semi- Fin.	No.
23F	$\frac{1}{8}$ & $\frac{1}{4}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{3}{8}$	30 21	23F	
25F	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	25	25F	
27F	$\frac{1}{8}$ & $\frac{1}{4}$	.....	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	31	27F	
29F	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	.....	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	37	29F	
33F	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	55	33F	
100F	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	53	100F	
21	.....	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	17	21	
23	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	21	23	
25	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	25	25	
27	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	31	27	
27C	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	31	27C	
28S	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	37	28S	
29	.....	$\frac{1}{4}$ & $\frac{1}{2}$	.....	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	37	29	
31	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	45	31	
33	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	55	33	
33C	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	55	33C	
402	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	1 10	402	
403	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	1 10	403	
404	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	1 20	404	
405	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	1 20	405	
500	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	27	500	
502	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	43	502	
504	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	70	504	
550AS	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	25	550AS	
551AS	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	31	551AS	
552AS	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	40	552AS	
553AS	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	53	553AS	
554AS	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	72	554AS	
555AS	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	96	555AS	
721	.....	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	17	721	
723	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	21	723	
723A	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	21	723A	
725	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	25	725	
725B	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	25	725B	
727	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	31	727	
729	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	37	729	
731	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	45	731	
731A	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	45	731A	
733	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	55	733	
821A	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	25	821A	
823A	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	32	823A	
825A	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	40	825A	





## BONNEY DROP-FORGED WRENCH ASSORTMENT

No. 65

This Assortment consists of six each of thirty different Bonney Semi-Finished Drop-Forged Wrenches, with a Lithographed Metal Front Display Board. The size of the Board is 45" high, 16" wide, 1 1/4" thick.

The Wrenches are held by special metal fixtures.

The Assortment of Wrenches includes Standard Drop-Forged Engineers Wrenches, both 15° and 22 1/2° angle openings, which may be used on U. S. Standard and S. A. E. nuts and cap screws. In addition to these Wrenches, there are special Wrenches for Valve Tappets, and a Wrench particularly designed for the reverse and brake bands on Ford Cars.

These Wrenches carry the usual Bonney Guarantee.

Each Board is packed in individual shipping container. The complete unit of one Board and one Wrench Assortment weighs approximately one hundred pounds. Charts showing size of Wrenches and openings are included with each Assortment.

List Price, \$75.00 each.

The Wrenches carried by this Board shown below (6 of each number).

No.	S. A. E. Standard	U. S. Standard	Cap Screws	Openings, Milled	Extreme Length	Thick- ness	Semi- finished	No.
21					3 1/2		\$0 17	21
23					4		21	23
25					4 1/2		25	25
27					5 1/2		31	27
27C					5 1/2		31	27C
28S					6		37	28S
29					6 1/2		37	29
31					7		45	31
33					8		55	33
33C					8 1/2		55	33C
100F					8 1/2		53	100F
550AS					4 1/2		25	550AS
551AS					5 1/2		31	551AS
552AS					7		40	552AS
553AS					8 1/2		53	553AS
554AS					10		72	554AS
555AS					11		96	555AS
721					3 1/2		17	721
723					4		21	723
723A					4 1/2		21	723A
725					4 1/2		25	725
725B					4 1/2		25	725B
727					6		31	727
729					6 1/2		37	729
731					7 1/2		45	731
731A					7 1/2		45	731A
733					9		55	733
821A					4 1/2		25	821A
823A					5 1/2		32	823A
825A					6		40	825A



## BONNEY AUTOMOTIVE DROP-FORGED WRENCH ASSORTMENT No. 70

This Assortment consists of four each of nineteen different Bonney Semi-Finished Drop-Forged Wrenches, with a Lithographed Metal Front Display Board. The size of the Board is 31½" high by 16½" wide by 1½" thick.

The Assortment of Wrenches can be divided into four groups: one, wrenches for Ford car; two, four sizes of 15° Wrenches for S. A. E. opening; three, three sizes of Wrenches for Valve Tap-pets; four, six sizes of 22½° angle openings, which cover the principal nuts and cap screws in U. S. Standard and S. A. E. sizes. The Display Board enables the dealer to keep his stock of Wrenches available both for himself and his customer. It materially increases the sale of Drop-Forged Wrenches and gives him a large margin of profit. These Wrenches carry the usual Bonney Guarantee.

Each Board is packed in individual shipping container. The complete unit of one Board and one Wrench Assortment weighs approximately 60 pounds. Charts, showing sizes of Wrenches and openings, are included with each assortment.

List Price, \$37.50 each.

The Wrenches carried by this Board shown below (4 of each number).

No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screws	Openings, Milled	Ex- treme L'gth	Thick- ness Heads	List Price Semi- Fin.	No.
23F	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	4 1/2"	3/8"	\$0.21	23F
25F	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	5"	1/2"	.25	25F
27F	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	6"	3/4"	.31	27F
29F	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	6 1/2"	7/8"	.37	29F
33F	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	9"	1 1/8"	.55	33F
100F	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	8 1/2"	1 1/8"	.53	100F
725	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	4 1/2"	3/8"	.25	725
727	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	6"	3/4"	.31	727
731A	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	7 1/8"	3/4"	.45	731A
33C	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	8 1/2"	1 1/8"	.55	33C
821A	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	4 3/8"	3/4"	.25	821A
823A	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	5 1/8"	7/8"	.32	823A
825A	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	6 1/8"	7/8"	.40	825A
550AS	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	4 3/8"	1/2"	.25	550AS
551AS	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	5 3/8"	1 1/8"	.31	551AS
552AS	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	7"	1 1/4"	.40	552AS
553AS	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	8 1/4"	1 1/8"	.53	553AS
554AS	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	9 1/2"	1 1/8"	.72	554AS
555AS	1/8" & 1/4"	1/4"	1/8" & 1/4"	3/8" & 1/2"	11"	1 1/2"	.96	555AS







## THE BUSY LITTLE CLERK

### BONNEY No. 60

Drop-Forged Wrench Assortment contains the following drop-forged wrenches, which have been found to be the sizes and designs for which there is the greatest demand.

#### GENERAL PURPOSE WRENCHES



22 1/2° Angle

Quantity	No.	Openings Finished Inches	Extreme Length Inches	Price Each Special Semi- Finished	Total
3	500	3/4 & 1 1/4	6 1/4		\$0.81
3	502	7/8 & 1 1/2	8 1/4	\$0.27	1.29
3	504	1 & 1 3/4	10 3/4	.43	2.10 \$4.20

#### ENGINEERS' WRENCHES



Quantity	No.	For U. S. Standard Nuts; Size Bolts	Openings Milled	Extreme Length Inches	Price Each Sp'l Semi- Fin.	Total
3	21	1/8 & 1/4	1/8 & 1/4	3 1/4	\$0.17	\$0.51
3	23	1/4 & 3/8	1/4 & 3/8	4 1/4	.21	.63
3	25	3/8 & 1/2	3/8 & 1/2	5 1/4	.25	.75
3	27	1/2 & 5/8	1/2 & 5/8	6 1/4	.31	.93
3	29	5/8 & 3/4	5/8 & 3/4	7 1/4	.37	1.11
3	31	3/4 & 7/8	3/4 & 7/8	8 1/4	.45	1.35
3	33	7/8 & 1	7/8 & 1	9 1/4	.68	2.04 \$7.32
30						\$11.52

This Assortment consists of three each of ten different Bonney Semi-Finished Drop-Forged Wrenches, with Lithographed Metal Front Display Board. The size of the Board is 26" high by 7 1/4" wide.

The Assortment of Wrenches includes two different styles: one, a general purpose Wrench for openings of 22 1/2° angle, the other, Engineers' Wrenches, having openings at 15° angle. The openings of general purpose Wrenches are, 3/4", 7/8", 1", 1 1/4", 1 1/2", and 1 3/4". The openings of Engineers' Wrenches include sizes 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", and 1 1/4".

Display Boards of this kind, with the striking two-colored Board and the Wrenches, easily available for your customers, secure many additional sales of Wrenches.

Each Board is packed in individual shipping container with complete unit, weighing approximately twenty pounds.

Price, Assortment No. 60 Complete, **\$12.50 Each.**

Price, Refill 30 Wrenches, without board, **\$11.52.**



## BONNEY GARAGE SET No. 650

This assortment consists of one each of thirty wrenches. It has been selected carefully as best suited for general garage and mechanical work.

It is a complete assortment of 15° and 22½° Double End Engineers Wrenches for U. S. Standard and S. A. E. nuts and cap screws. It also includes Valve Tappet Wrenches and a special Wrench for the reverse gear and brake band adjustment on a Ford car. This assortment is packed in individual shipping containers which makes it easy to handle and ship. For convenience of large users, we have a container holding twelve of these sets.



List Price, each \$11.18.

## BONNEY AUTOMOBILE WRENCHES

SET No. 32

For S. A. E. and U. S. Standard Nuts and Cap Screw

These Wrenches are designed for use where a wide swing can be made. The angle of openings is 22½°. This set is a favorite for working about automobiles, also textile establishments and mills, where machine repairs are frequently necessary.

Set contains six Wrenches having twelve different openings for U. S. Standard and S. A. E. nuts and bolts, and cap screws, sizes from ¼" to 1½". Actual openings are from ⅜" to 1½" inclusive. These openings will take all commonly used nuts on American made automotive and mill machinery.



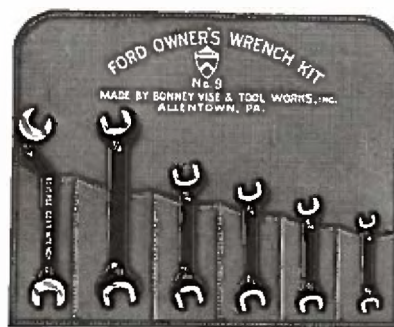
List Price, in cardboard boxes, \$3.17.

List Price, in canvas roll, \$3.55.

No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screw	Openings, Milled	Ex- treme L'gth	Thick- ness Heads	List Price Semi- Finish	No.
550AS	¼ & ½	.....	⅜ & 1	⅜ & 1	4½	1	\$0.25	550AS
551AS	⅜ & ¾	1/4 & 3/4	1/8 & 3/8	1/8 & 3/8	5½	1 1/8	31	551AS
552AS	1/8 & 1	.....	1/8 & 1	1/8 & 1	7	1 1/4	40	552AS
553AS	3/8 & 1 1/8	.....	3/8 & 1 1/8	3/8 & 1 1/8	8½	1 3/8	53	553AS
554AS	1/2 & 1 1/2	.....	1/2 & 1 1/2	1/2 & 1 1/2	9½	1 1/2	.72	554AS
555AS	3/4 & 1 3/4	.....	3/4 & 1 3/4	1 1/8 & 1 3/4	11	1 3/4	.96	555AS

[27





## BONNEY FORD OWNER'S WRENCH KIT No. 9

Six Wrenches, twelve openings—one for every nut on the Ford. A complete Kit for Fords that includes a thin Wrench with offset bar for adjusting the reverse gear and brakes. Packed in a canvas roll, they fold up compactly and occupy very little room, yet are always ready to make any repairs or adjustments. This set is indispensable to a Ford owner.

List Price, in cardboard box, **\$2.22**

List Price, in canvas roll, **\$2.60**

No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screws	Openings, Milled	Ex- treme Length	Thick- ness Head	List Price	No.
23F	1/2" A	1/2" A	1/2" A	1/2" A	4 1/2"	3/8"	\$0 21	23F
25F	3/4" A	3/4" A	3/4" A	3/4" A	5"	1/2"	25	25F
27F	7/8" A	7/8" A	7/8" A	7/8" A	6"	5/8"	31	27F
29F	1" A	1" A	1" A	1" A	6 1/2"	3/4"	37	29F
33F	1 1/8" A	1 1/8" A	1 1/8" A	1 1/8" A	8"	7/8"	55	33F
100F	1 3/4" A	1 3/4" A	1 3/4" A	1 3/4" A	8 1/2"	1"	53	100F

## BONNEY VALVE TAPPET WRENCH SET No. 6



The Valve Tappet Set consists of three pairs of finely finished, extremely thin, strong Wrenches, particularly designed for the difficult and delicate operation of adjusting Valve Tappets. This set, although thin, has sufficient strength to take care of adjusting Valve Tappets.

It consists of two each of three different sized Wrenches. There are two wrenches of each size, because in many Tappet assemblies two nuts of exactly the same size are used to lock against each other. It is therefore necessary that one nut be held while the other is tightened. Because the adjustment of Valve Tappets is a repair man's job and the car owner would have use for only two wrenches of one size opening, this set is designed particularly for repair men.

We suggest that owners buy the particular wrenches for their cars. These wrenches may be found on any large Bonney Display Board.

Set No. 6 packed either in cardboard boxes or canvas roll.

List Price, in cardboard box, **\$1.94.**

List Price, in canvas roll, **\$2.34.**

Two of each wrench listed below to a set.

No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screws	Openings, Milled	Length	Thick- ness Head	List Price	No.
821A	1/2" A	1/2" A	1/2" A	1/2" A	4 1/2"	3/8"	\$0 25	821A
823A	3/4" A	3/4" A	3/4" A	3/4" A	5"	1/2"	32	823A
825A	7/8" A	7/8" A	7/8" A	7/8" A	6"	5/8"	40	825A



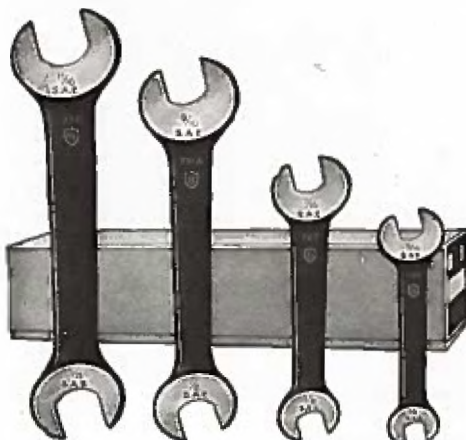


## BONNEY

### CAR OWNER'S AUTOMOTIVE DROP-FORGED WRENCH SET No. 8

This set contains four Wrenches, eight openings to fit the eight most used S. A. E. nuts and cap screws, with no unnecessary sizes. It is designed particularly for the car owner and is made to sell at a low price. The openings are  $\frac{1}{8} \times \frac{1}{4}$ ,  $\frac{1}{8} \times \frac{3}{8}$ ,  $\frac{1}{4} \times \frac{1}{2}$ ,  $\frac{1}{2} \times 1$ , which will fit S. A. E. nuts  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and  $1\frac{1}{2}$ . Sets are packed in cardboard boxes.

List Price, each \$1.56.



No.	S. A. E. Standard Nut	U. S. Standard Nut	Cap Screws	Openings, Milled	Ex-treme Length	Thick-ness Heads	List Price	No.
725	$\frac{1}{4} \times \frac{1}{8}$	$\times \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{4}$	4 $\frac{1}{2}$	$\frac{3}{16}$	\$0 25	725
727	$\frac{3}{8} \times \frac{1}{8}$	.....	$\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{4}$	6	$\frac{1}{4}$	31	727
731A	$\frac{1}{2} \times \frac{1}{8}$	$\times \frac{1}{2}$	$\frac{1}{2} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{2}$	7 $\frac{1}{2}$	$\frac{1}{2}$	45	731A
33C	$\frac{1}{2} \times \frac{1}{4}$	.....	$\frac{1}{2} \times \frac{1}{4}$	$\frac{1}{2} \times 1$	9	$\frac{3}{4}$	55	33C

## BONNEY

STAMPED

### THIN WRENCHES

Five Wrenches with ten openings from  $\frac{1}{4}$ " to 1" that are especially adapted to motor valve tappets, check nuts, lock nuts and automobile use. They are stamped from special analysis steel, and are hardened all over. Packed in a cardboard box or canvas case, they can be conveniently kept in the tool kit, occupying little space.

Set No. 1—Five Wrenches, semi-finished, in canvas case.

List Price, \$1.63.

Set No. 2—Same as No. 1, packed in cardboard box.

List Price, \$1.30.



# BONNEY FORGE & TOOL WORKS *Allentown, Pa.*

## GENERAL PURPOSE WRENCHES IN SETS DROP FORGED



### SET A

Contains 5 Wrenches, one each of the following:

No.	Manufacturers' Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
500	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	6	$\frac{1}{2}$	\$0.18	\$0.27	\$0.38	500
501	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	7	$\frac{3}{4}$	.23	.34	.47	501
502	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	8	$\frac{1}{2}$	.20	.43	.58	502
503	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	9	$\frac{3}{4}$	.38	.55	.72	503
504	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	10	$\frac{1}{2}$	.50	.70	.90	504
Packed one set in cardboard box .....					1.58	2.29	3.05	
Packed one set in canvas roll .....					1.98	2.67	3.44	

### SET B

Contains 3 Wrenches, one each of the following:

No.	Manufacturers' Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
500	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	6	$\frac{1}{2}$	\$0.18	\$0.27	\$0.38	500
502	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	8	$\frac{1}{2}$	.20	.43	.58	502
504	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	10	$\frac{1}{2}$	.60	.70	.90	504
Packed one set in cardboard box .....					.97	1.40	1.80	
Packed one set in canvas roll .....					1.32	1.75	2.21	

### SET D

Contains 5 Wrenches, for A. L. A. M. Standard Nuts and Cap Screws, one each of the following:

No.	For A. L. A. M. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Un-finished	Semi-finished	Finished	
500	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	6	$\frac{1}{2}$	\$0.18	\$0.27	\$0.38	500
502A	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	8	$\frac{1}{2}$	.20	.43	.58	502A
503	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	9	$\frac{3}{4}$	.38	.55	.72	503
504A	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	10	$\frac{1}{2}$	.60	.70	.90	504A
505C	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	12	$\frac{1}{2}$	.70	1.00	1.30	505C
Packed one set in cardboard box .....					3.05	2.95	3.88	
Packed one set in canvas roll .....					2.44	3.33	4.26	

Be particular when ordering to state whether unfinished semi-finished or finished are wanted.



## GENERAL PURPOSE WRENCHES IN SETS

(Continued from opposite page.)

### SET G

Contains 4 Wrenches, one each of the following:

No.	U. S. Standard Nut	Cap Screw	S. A. E. Standard Nut	Milled Opening	Extreme Length	Thickness Heads	PRICE		No.
							Un- fin- ished	Semi- Fin- ished	
500A		$\frac{1}{8}$ & $\frac{1}{4}$		$\frac{1}{2}$ & $\frac{7}{8}$	$6\frac{1}{2}$	$\frac{1}{2}$	\$0.18	\$0.27	500A
501C	$\frac{1}{8}$ &	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{2}$ & $\frac{1}{4}$	$7\frac{1}{2}$	$\frac{1}{2}$	.23	.34	501C	
502D		$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{4}$	$\frac{1}{2}$ & $\frac{1}{4}$	$8\frac{1}{2}$	$\frac{1}{2}$	.29	.43	502D
502G	$\frac{1}{8}$ & $\frac{3}{8}$			$\frac{1}{2}$ & $\frac{1}{4}$	$8\frac{1}{2}$	$\frac{1}{2}$	.29	.43	502G
Packed one set in cardboard box.....							.99	1.47	
Packed one set in canvass roll.....							1.38	1.86	

## TEXTILE MACHINE WRENCHES

DROP FORGED



In Sets  
SET No. 10

No.	U. S. Standard Nut	Openings Milled	Extreme Length	Thick- ness Heads	PRICE		No.	
					Un- finished	Semi- Finished		
550	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{2}$ & $\frac{1}{4}$	4 $\frac{1}{2}$	$\frac{1}{2}$	\$0.17	\$0.25	550	
551	$\frac{1}{8}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{1}{4}$	5 $\frac{1}{2}$	$\frac{1}{2}$	.21	.31	551	
552	$\frac{1}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{4}$	7	$\frac{1}{2}$	.27	.40	552	
553	$\frac{1}{8}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{3}{4}$	8 $\frac{1}{2}$	$\frac{1}{2}$	.30	.53	553	
554	$\frac{1}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & 1 $\frac{1}{4}$	9 $\frac{1}{2}$	$\frac{1}{2}$	.50	.72	554	
555	$\frac{1}{8}$ & $\frac{1}{2}$	1 $\frac{1}{2}$ & 1 $\frac{1}{4}$	11	$\frac{1}{2}$	.08	.96	555	
Packed one set in cardboard box.....						2.19	3.17	
Packed one set in canvass roll.....						2.58	3.56	

### SET No. 12

No.	U. S. Standard Nut	Openings Milled	Extreme Length	Thick- ness Heads	PRICE		No.	
					Un- finished	Semi- Finished		
550	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{1}{2}$	\$0.17	\$0.25	550	
551	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{1}{2}$	5 $\frac{1}{2}$	$\frac{1}{2}$	.21	.31	551	
553A	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{1}{2}$	8 $\frac{1}{2}$	$\frac{3}{8}$	.30	.53	553A	
554	$\frac{1}{2}$ & $1\frac{1}{4}$	$\frac{1}{2}$ & $1\frac{1}{4}$	9 $\frac{1}{2}$	$\frac{3}{8}$	.50	.72	554	
555A	$\frac{1}{2}$ & $1\frac{1}{4}$	$1\frac{1}{2}$ & $1\frac{1}{2}$	11	$\frac{1}{2}$	.08	.96	555A	
Packed one set in cardboard box.....						1.92	2.77	
Packed one set in canvass roll.....						2.31	3.16	





## DOUBLE HEAD WRENCHES



15° Angle

**DROP-FORGED—CHROME VANADIUM STEEL (Heat Treated)**

This line of open end wrenches is the highest quality of wrenches made.

**Nickel finish with buffed heads.**

For U. S. Standard, Cap Screws, also S. A. E. Standard

No.	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Openings Milled	Ex- treme Length	Thick- ness of Heads	Price nickel finished	No.
1722		$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	4 $\frac{1}{2}$	$\frac{3}{32}$	\$0.48	1722
1022	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	4 $\frac{1}{2}$	$\frac{3}{32}$	.48	1022
1723		$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	4 $\frac{1}{2}$	$\frac{3}{32}$	.48	1723
1023	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	4 $\frac{1}{2}$	$\frac{3}{32}$	.48	1023
1723A		$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	4 $\frac{1}{2}$	$\frac{3}{32}$	.48	1723A
1724		$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	5 $\frac{1}{2}$	$\frac{3}{32}$	.58	1724
1024	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	5 $\frac{1}{2}$	$\frac{3}{32}$	.58	1024
1725		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	5 $\frac{1}{2}$	$\frac{3}{32}$	.58	1725
1725A		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	5 $\frac{1}{2}$	$\frac{3}{32}$	.58	1725A
1725B		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	5 $\frac{1}{2}$	$\frac{3}{32}$	.58	1725B
1025	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	5 $\frac{1}{2}$	$\frac{3}{32}$	.58	1025
1726		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	6 $\frac{1}{2}$	$\frac{3}{32}$	.70	1726
1026	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	6 $\frac{1}{2}$	$\frac{3}{32}$	.70	1026
1727		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	6 $\frac{1}{2}$	$\frac{3}{32}$	.70	1727
1027	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	6 $\frac{1}{2}$	$\frac{3}{32}$	.70	1027
1027C	$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	6 $\frac{1}{2}$	$\frac{3}{32}$	.70	1027C
1028	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.87	1028
1728		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.87	1728
1028S	$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.87	1028S
1729		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.87	1729
1029	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.87	1029
1730		$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	8 $\frac{1}{2}$	$\frac{1}{16}$	1.07	1730
1030	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	8 $\frac{1}{2}$	$\frac{1}{16}$	1.07	1030
1731		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	8 $\frac{1}{2}$	$\frac{1}{16}$	1.07	1731
1731A		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	8 $\frac{1}{2}$	$\frac{1}{16}$	1.07	1731A
1031	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	8 $\frac{1}{2}$	$\frac{1}{16}$	1.07	1031
1731B		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	8 $\frac{1}{2}$	$\frac{1}{16}$	1.07	1731B
1732		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{16}$	1.32	1732
1032	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{16}$	1.32	1032
1732A		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{16}$	1.32	1732A
1033	$\frac{1}{8} \times \frac{1}{8}$			$\frac{1}{8} \times \frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{16}$	1.32	1033
1733		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{16}$	1.32	1733
1033C	$\frac{1}{8} \times \frac{1}{8}$		$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$	9 $\frac{1}{2}$	$\frac{1}{16}$	1.32	1033C

## BONNEY CHROME VANADIUM TAPPET WRENCHES



These wrenches will fit a very large number of Tappet adjustments on automobiles and trucks. Each wrench has two openings of the same size, but with different angles, so as to allow the closest possible adjustment of nuts and screws.

The thinness of the wrenches requires an alloy steel of the highest grade, with the best possible heat treatment. This has all been provided in the manufacture of these New Tappet tools.

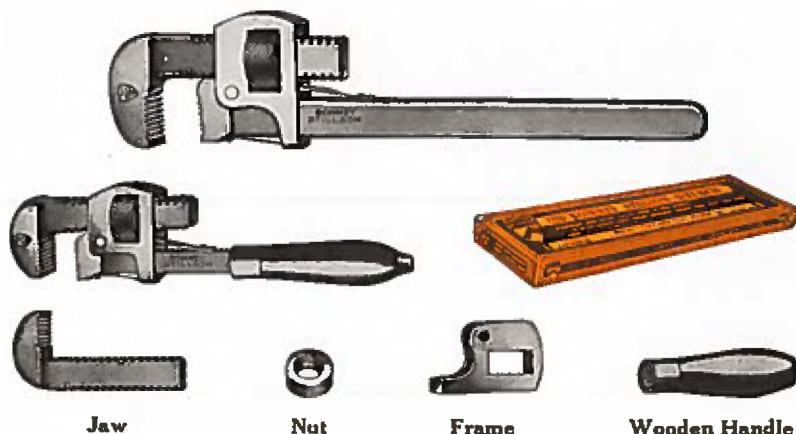
The list shows a few of the passenger cars on which these wrenches will fit tappet assemblies.

Stock No.	Mild Opening	For S. A. E. Nuts Bolt Size	For U. S. S. Nuts Bolt Size	Extreme Length	Thickness of Head	Price nickel finished	Stock No.
402	1/4	7/8	1	8	1/4	\$1.10	402
402A	3/8	1	1 1/8	8	3/8	1.10	402A
403	1/2	1 1/8	1 1/4	8	1/2	1.10	403
403A	5/8	1 3/8	1 3/4	8	5/8	1.10	403A
404	3/4	1 1/2	1 5/8	8	3/4	1.20	404
405	7/8	1 3/4	1 3/4	8	7/8	1.20	405
406	1	2	2	8	1	1.35	406
406A	1 1/8	2 1/8	2 1/4	8	1 1/8	1.35	406A
407	1 1/4	2 1/4	2 1/2	8	1 1/4	1.35	407
407A	1 3/4	2 3/4	2 3/4	8	1 3/4	1.35	407A

Wrench No.	402	402A	403	403A	404	405	406	406A	407	407A
Apperson		1								
Auburn					1					
Briscoe										
Buick										
Cadillac			2							
Case	1									
Chalmers				1					1	
Chandler			2							
Chevrolet	1									
Cleveland			2							
Cole	1		1							
Crawford				2						
Cunningham			2							
Danville										
Dodge	2									
Dort	1		1		1					
Dupont			2							
Durant	1									
Easer					2	1				
Franklin					1					
Gardner	1		1		1					
Hayers				1						
Hudson					2	1				
Hupp			2							
Jordan-B-C-F	2									
" M	1									
King					1					
Lafayette			2							
Liberty	2									
Lincoln	2									
Wrench No.	402	402A	403	403A	404	405	406	406A	407	407A
Maxwell	1		2							
Mercer			1							
Mitchell	1		1							
Monroe	1									
Moon					1	1				
Nash	1				1					
National					1	1				
Oakland	2									
Olds-8			2							
" Large 8	1		1							
Overland 4	2									
" 30-1-3 33-4	1									
" 36			2		1					
" 35-6			2							
" 30	1				2					
" 38-8-32					2	1				
Packard 6			2							
" 12	1		1							
Paige					1	1			1	
Pierce			1							
Premier	2									
Reo			1							
Rickenbacker			2							
Saxon	1		1							
Standard	2									
Stephens									1	
Studebaker	1	1								
Stutz			2							
Winton					2					

## BONNEY STILLSON WRENCHES

Practically every car owner and every repairman has use for one or more sizes of Stillson Wrenches



BONNEY STILLSON WRENCHES are all forged from the highest grade tool steel, and are interchangeable with similar wrenches. Each wrench is thoroughly tested and is absolutely warranted in every way. 6" to 18" sizes inclusive, furnished in wood or steel handle. 24" 36" and 48" sizes steel handle only.

### PRICE LIST

Length, open .....	6	8	10	12	14	18	24	36	48
Takes pipe .....	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{3}{4}$ - $\frac{1}{2}$	$\frac{1}{2}$ - 1	$\frac{1}{2}$ - $1\frac{1}{4}$	$\frac{1}{2}$ - $1\frac{1}{2}$	$\frac{1}{2}$ - 2	$\frac{1}{2}$ - $2\frac{1}{4}$	$\frac{1}{2}$ - $3\frac{1}{2}$	1 - 5
Price each .....	\$2.00	\$2.25	\$2.50	\$3.25	\$3.50	\$5.00	\$7.25	\$13.50	\$20.00
Extra jaws .....	.75	.80	.85	1.10	1.15	1.75	2.25	4.35	7.60
Extra frames .....	.38	.42	.50	.60	.60	.75	.95	1.70	2.20
Steel handles .....	.95	1.00	1.00	1.45	1.60	2.25	3.60	7.00	10.60
Nuts .....	.12	.15	.20	.30	.30	.35	.55	1.10	1.60
Springs .....	.10	.10	.10	.10	.10	.10	.11	.13	.13
No. of springs each wrench .....	1	1	3	3	3	3	3	1	1
Frame pins .....	.03	.03	.04	.04	.04	.04	.04	.05	.05
Spring pins .....	.01	.01	.02	.02	.02	.02	.02	.02	.02
End nuts .....	.15	.15	.20	.20	.20	.20	.20	.20	.20
Ferrule .....	.10	.10	.12	.15	.15	.15	.15	.15	.15

All sizes of Stillson Wrenches from 6" to 14", inclusive, are packed in individual cartons, six cartons in a container.

### EXPORT PACKING OF STILLSON WRENCHES

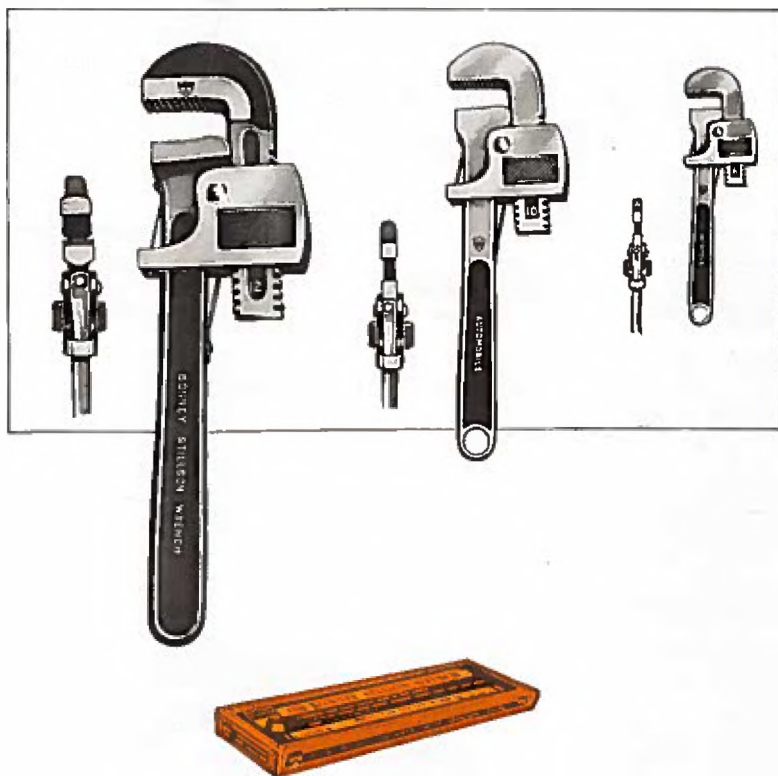
Size	No. to Case	Net Wt. lbs.	Gross Wt. lbs.	Measurements
6"	72	24	28	13 $\frac{3}{4}$ x 7 $\frac{1}{4}$ x 8 $\frac{3}{4}$
8"	72	47	52	10 x 8 $\frac{1}{2}$ x 8 $\frac{1}{2}$
10"	72	108	122	22 $\frac{1}{4}$ x 12 $\frac{1}{2}$ x 14
12"	72	192	212	24 $\frac{1}{2}$ x 14 x 14
14"	72	204	224	24 $\frac{1}{2}$ x 15 $\frac{3}{4}$ x 15 $\frac{3}{4}$
18"	54	243	267	21 $\frac{1}{2}$ x 15 x 18
24"	24	200	221	27 x 13 x 15 $\frac{1}{2}$
36"	6	90	100	35 x 8 $\frac{1}{2}$ x 8 $\frac{1}{2}$
48"	6	144	160	45 x 10 $\frac{1}{2}$ x 7 $\frac{1}{2}$





## BONNEY MOTOR STILLSONS

Three Special Automobile Models and a 12" Motor-Truck Model



Packed in individual cartons, as illustrated, 6 dozen of a size to a case

Bonney Automobile Stillsons have extra thin, closely milled jaws with fine teeth, and are the only wrenches of this type designed especially for use on automobiles and finely finished machinery.

Owners of automobiles and motor-cycles, also repairmen, are quick to see and appreciate the fact that these are not ordinary tools.

We have a special descriptive folder on these wrenches.

	Takes Round Part	Length Open	Price Each
6" Motor-Cycle Stillson Wrench	$\frac{1}{8}$ to $\frac{3}{8}$	6"	\$2.00
8" Automobile Stillson Wrench	$\frac{3}{8}$ to $\frac{1}{2}$	8"	2.25
10" Automobile Stillson Wrench	$\frac{1}{2}$ to $1\frac{1}{2}$	10"	2.50
12" Motor-Truck Stillson Wrench (Heavy Jaw)	$\frac{1}{2}$ to $1\frac{1}{2}$	12"	3.25

[ 35



## BONNEY ADJUSTABLE "S" NUT WRENCH



PATENTED

BONNEY Adjustable "S" NUT Wrenches are designed, primarily, for utility, but in their construction every care has been taken to produce not only strength and durability, but also balance and beauty. The sliding jaw is a drop-forging and the long or fixed jaw is made of the highest grade of malleable iron. All parts are interchangeable. The handle is finished in bright black enamel and the jaws are polished.

### PRICE LIST

Size, inches	6	8	10	12	14
Opens to . . . . .	$\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	2"
Price, per doz. . .	\$8.00	\$10.00	\$12.00	\$18.00	\$24.00
Weight, per doz.	5 lbs.	12 lbs.	21 lbs.	32 lbs.	50 lbs.

## BONNEY ADJUSTABLE "S" PIPE WRENCH



PATENTED

BONNEY Adjustable "S" Pipe Wrenches are similar in material and finish to the Adjustable "S" Nut Wrenches described above. The sliding jaw, however, is milled with teeth correctly cut to grip both pipe and round iron, and the long jaw is constructed on an angle of correct degree to prevent locking of the wrench when used on particularly difficult work. As in the case of the Adjustable "S" NUT Wrench the parts are interchangeable and the milled jaw can be replaced without difficulty.

### PRICE LIST

Size, inches	6	8	10	12	14
Grips . . . . .	$\frac{1}{4}$ Wire to $\frac{1}{4}$ pipe	$\frac{1}{4}$ Wire to $\frac{1}{4}$ pipe	$\frac{1}{4}$ Wire to 1 pipe	$\frac{1}{4}$ Wire to 1 $\frac{1}{2}$ pipe	$\frac{1}{4}$ Wire to 1 $\frac{1}{2}$ pipe
Price, per doz. . .	\$8.00	\$10.00	\$12.00	\$18.00	\$24.00
Weight, per doz.	5 lbs.	13 lbs.	22 lbs.	33 lbs.	57 lbs.

## BONNEY "HERCULES" SCREW WRENCHES

Trade Mark Registered



Bonney Hercules Screw Wrenches are made of the best grade of steel and malleable iron. The long jaw is a drop-forging and the sliding jaw and handle frame are malleable iron. All parts are carefully machined to an accurate fit and are interchangeable. The jaws are case hardened to withstand wear.

These wrenches are warranted against any defects in workmanship and material and against breakage from any cause, except abuse.

They are wrapped one-half dozen to a bundle in sizes 6" to 12", inclusive. 15" and 18" are wrapped one-third in a bundle and the 21" are wrapped one in a bundle

### PRICE LIST AND DOMESTIC PACKING

Size	6"	8"	10"	12"	15"	18"	21"
Opens	$\frac{3}{4}$ "	$1\frac{1}{4}$ "	$1\frac{3}{4}$ "	$2\frac{1}{4}$ "	$2\frac{3}{4}$ "	$3\frac{1}{4}$ "	$4\frac{1}{4}$ "
Weight per doz.	8 $\frac{1}{2}$ lbs.	15	24	30	57	82	104
Weight per case	58	102	165	265	100	184	124
Black, per doz.	\$15.00	\$18.00	\$22.00	\$28.00	\$38.00	\$48.00	\$58.00

6", 8", 10", 12" packed 6 doz. to case.  
15" " " " " " " " " " " " "

18" packed 2 doz. to case.  
21" " " " " " " " " " " " "

### EXPORT PACKING

Size	Quantity	Net Wt., lbs.	Gross Wt., lbs.	Measurements
6"	6 doz.	51	61	17 x 8 $\frac{1}{2}$ x 7 $\frac{1}{2}$
8"	6 "	90	110	21 $\frac{1}{2}$ x 10 $\frac{1}{2}$ x 8 $\frac{1}{2}$
10"	6 "	144	175	23 $\frac{1}{2}$ x 12 x 9 $\frac{1}{2}$
12"	6 "	234	275	26 x 14 $\frac{1}{2}$ x 11
15"	3 "	171	200	19 $\frac{1}{2}$ x 18 x 9 $\frac{1}{2}$
18"	2 "	104	184	22 x 13 $\frac{1}{2}$ x 10
21"	1 "	104	124	24 $\frac{1}{2}$ x 14 x 6 $\frac{1}{2}$

## BONNEY AUTOMOBILE WRENCH No. 90



This wrench is strongly constructed for automobile and motor boat use. It is made of a drop forged steel long jaw and a malleable iron sliding jaw with steel adjusting nut. The overall length is 9" and opening 2". Jaws are  $1\frac{1}{4}$ " wide and  $\frac{3}{8}$ " thick. Black and polished finish. Packed 1 gross in a case; weight 150 lbs.

Price per dozen, \$12.00.





## BONNEY COMBINATION PIPE AND NUT WRENCH



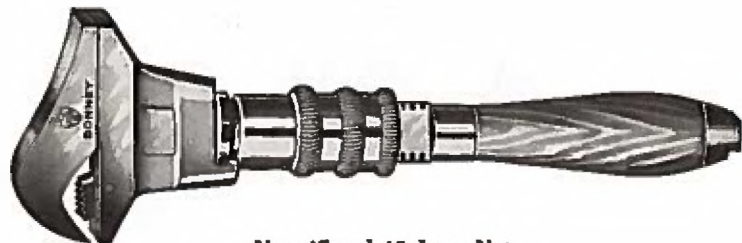
**Nos. 43 and 44, Short Nut**

This wrench is strongly and carefully made, is thoroughly tested in every way and is warranted perfect in material and workmanship. The long jaw and shank is a solid drop-forging. The slide is of highest grade malleable iron and the toggle is drop-forged of special analysis tool steel.

### LIST PRICE, No. 43, POLISHED FINISH " 44, BLACK FINISH

Size	Capacity	Price per doz.	Weight per doz.
8"	$\frac{1}{4}$ " to $\frac{1}{2}$ "	\$25.00	15 lbs.
10"	$\frac{1}{2}$ " " 1"	28.00	25 "
12"	$\frac{3}{4}$ " " 1 $\frac{1}{2}$ "	34.00	36 "
15"	$1\frac{1}{4}$ " " 2 $\frac{1}{4}$ "	45.00	52 "
18"	$1\frac{3}{4}$ " " 3"	82.00	81 "

## BONNEY COMBINATION PIPE AND NUT WRENCH



**Nos. 45 and 46, Long Nut**

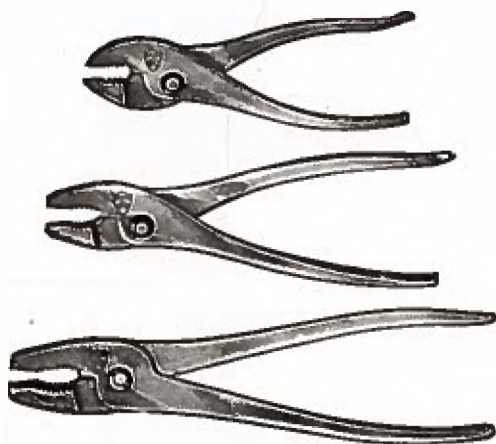
Combination Wrench No. 46 is exactly the same in every particular as No. 44, with the one exception that the adjusting nut is made in the form of a knurled sleeve instead of the short nut. The knurled sleeve forms a covering for the screw on which the adjusting nut operates and thus protects the thread from bruises and other damage.

### LIST PRICE, No. 45, POLISHED FINISH " 46, BLACK FINISH

Size	Capacity	Price per doz.	Weight per doz.
8"	$\frac{1}{4}$ " to $\frac{1}{2}$ "	\$27.00	16 lbs.
10"	$\frac{1}{2}$ " " 1"	30.00	25 "
12"	$\frac{3}{4}$ " " 1 $\frac{1}{2}$ "	36.00	38 "
15"	$1\frac{1}{4}$ " " 2 $\frac{1}{4}$ "	48.00	55 "
18"	$1\frac{3}{4}$ " " 3"	87.00	84 "



## BONNEY COMBINATION PLIERS



Size	Capacity	Nickel Plated	Blued
5".....	$\frac{1}{2}$ " pipe.....	\$10.00	\$9.00
6".....	$\frac{3}{4}$ " pipe.....	15.00	13.50
8".....	1" pipe.....	18.00	16.00
10".....	1 $\frac{1}{2}$ " pipe.....	21.00	18.00

Bonney Combination Pliers are drop-forged from high carbon steel, are carefully machined, hardened and polished. They are made in two finishes, Nickel Plated and Blued.

Each plier combines a regular plier, wire cutter and screw driver.

The opening of the jaw can be enlarged to a very wide capacity by sliding the rivet from one hole to the other.

Packed in individual cartons.

## BONNEY BATTERY AND GREASE CUP PLIERS

Patented

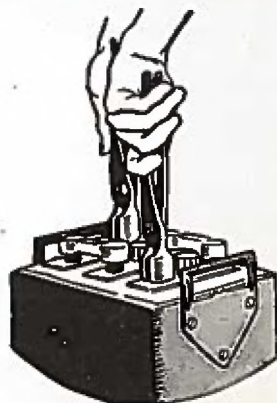
Bonney Battery and Grease Cup Pliers, because of their design of jaw and cross milling, fill a need for a plier with an end twist or end pull for handling grease cups or for gripping battery posts, terminals, etc., operations both difficult and awkward with ordinary side twist or side pull pliers.

Battery plates are attached to battery posts. These plates become corroded and stick and are hard to remove. As the post is cylindrical it is difficult to grip it hard enough to get a firm pull. The cross milling of the double concave jaws of the Bonney Battery and Grease Cup Pliers allows a firm grip which will hold the cylinder firmly enough to pull out the tightest set of plates. For best results two pliers should be used for lifting posts.

Turning down the average grease cup is a dirty and discouraging job as the blistered fingers of any one who has tried it will testify. The action of Bonney Battery and Grease Cup Pliers is from any angle.

Bonney Battery and Grease Cup Pliers are made from Drop-Forged Steel, nine inches long, and weigh 8 $\frac{1}{2}$  pounds a dozen. One gross in a case. Packed singly in cardboard boxes.

List Price, \$18.00 dozen.



**BONNEY "CROCODILE" WRENCHES**

Trade Mark Registered

**STAMPED STEEL**

Are handy for general use; they will turn nuts as well as round bars



**Nos. 0S and 1S**

Nos. 0S and 1S Crocodile Wrenches are stamped from high grade sheet steel. The teeth are milled and the jaws are carefully hardened. They have black satin finish and polished jaws.

No.	Length	Holds pipe	Holds round iron	Price per doz.	Wt. per doz.
0S	4"	$\frac{1}{8}"$ to $\frac{1}{4}"$	$\frac{1}{4}"$ to $\frac{3}{8}"$	\$3.00	1 $\frac{1}{4}$ lbs.
1S	5 $\frac{3}{4}"$	$\frac{1}{8}"$ " $\frac{3}{8}"$	$\frac{1}{4}"$ " $\frac{3}{4}"$	4.00	3 $\frac{1}{2}$ "

Packed 1 gross in a case.

**DROP FORGED**



**Nos. 1  $\frac{1}{2}$  and 1  $\frac{3}{4}$**

Nos. 1  $\frac{1}{2}$  and 1  $\frac{3}{4}$  are drop-forged, teeth milled diagonally and jaws hardened and polished. The steel used in the manufacture of all drop-forged "Crocodile" Wrenches is high in carbon and of special analysis.

No.	Length	Holds pipe	Holds round iron	Price per doz.	Wt. per doz.
1 $\frac{1}{2}$	5 $\frac{3}{4}"$	$\frac{1}{8}"$ to $\frac{3}{8}"$	$\frac{1}{4}"$ to $\frac{3}{4}"$	\$4.50	4 lbs.
1 $\frac{3}{4}$	7"	$\frac{1}{8}"$ " $\frac{3}{4}"$	$\frac{3}{8}"$ " 1 $\frac{1}{4}"$	8.00	8 $\frac{1}{2}$ "

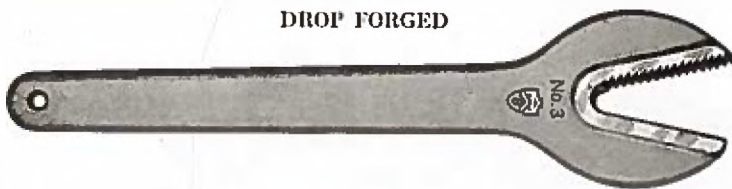
1 gross in a case.



## BONNEY "CROCODILE" WRENCHES

Trade Mark Registered

DROP FORGED



No.	Length inches	Holds pipe, inches	Holds round iron, inches	Price, per doz.	Weight per doz.
2.....	9.....	$\frac{3}{4}$ to $\frac{1}{2}$ .....	$\frac{1}{2}$ to 1.....	\$12.00....	13 lbs.
2 $\frac{1}{2}$ .....	12 $\frac{1}{2}$ .....	$\frac{1}{2}$ to 1.....	$\frac{1}{2}$ to 1 $\frac{1}{2}$ .....	18.00....	18 $\frac{1}{2}$ "
3.....	15.....	$\frac{1}{2}$ to 1 $\frac{1}{2}$ .....	$\frac{1}{2}$ to 1 $\frac{1}{2}$ .....	24.00....	30 "
4.....	21.....	1 $\frac{1}{2}$ to 2.....	1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ .....	36.00....	78 "
4 $\frac{1}{2}$ .....	24.....	1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ .....	1 $\frac{1}{2}$ to 3 $\frac{1}{2}$ .....	50.00....	114 "
5.....	27.....	2 to 3.....	2 $\frac{1}{2}$ to 3 $\frac{1}{2}$ .....	60.00....	147 "

All of the above sizes packed bulk, except No. 2, which is packed  $\frac{1}{2}$  dozen to a box.



No. 10

TWIN "CROCODILE" Drop-Forged, teeth milled diagonally, and jaws hardened and polished. The steel used is high in carbon and of a special analysis.

No.	Length inches	Holds pipe, inches	Holds round iron inches	Price, per doz.	Weight, per doz.
10	10	$\frac{1}{2}$ to $\frac{3}{4}$	$\frac{1}{2}$ to 1	\$18.00	14 lbs.

Packed bulk.

## EXPORT PACKING OF "CROCODILE" WRENCHES

Size	No. to case	Net Weight lbs.	Gross Weight lbs.	Measurements, inches
0.....	144 doz.....	180.....	209.....	32 x 11 $\frac{1}{2}$ x 9
1.....	36 ".....	126.....	156.....	22 x 12 x 8
21.....	36 ".....	126.....	156.....	22 x 12 x 8
1M.....	36 ".....	90.....	120.....	22 x 12 x 8
1 $\frac{1}{2}$ .....	60 ".....	212.....	256.....	32 x 18 x 12
1 $\frac{3}{4}$ .....	30 ".....	250.....	291.....	31 $\frac{1}{2}$ x 12 $\frac{1}{2}$ x 12
2.....	25 ".....	325.....	364.....	32 x 17 x 15 $\frac{1}{2}$
2 $\frac{1}{2}$ .....	20 ".....	368.....	405.....	32 x 12 $\frac{1}{2}$ x 14 $\frac{1}{2}$
3.....	10 ".....	500.....	598.....	24 $\frac{1}{2}$ x 14 $\frac{1}{2}$ x 17
4.....	3 ".....	234.....	262.....	23 x 14 $\frac{1}{2}$ x 10
4 $\frac{1}{2}$ .....	1 ".....	114.....	150.....	20 x 9 x 6 $\frac{1}{2}$
5.....	1 ".....	147.....	179.....	29 x 10 x 8 $\frac{1}{2}$
10 (Twin).....	20 ".....	280.....	320.....	26 $\frac{1}{2}$ x 12 x 12



## THE "VIXEN" WRENCH

Trade Mark Registered

**DROP FORGED**



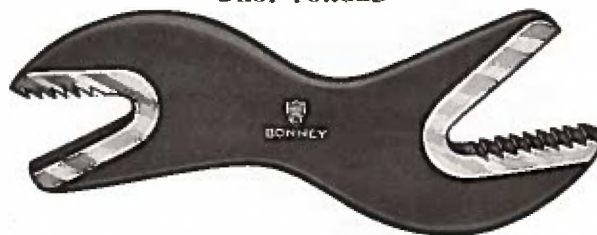
The "Vixen" Wrench is designed as a handy pocket tool for general use and around the automobile, tractor or farm machinery. The two ends are milled with teeth of capacity to turn pipe from  $\frac{1}{4}$ " to  $1\frac{1}{4}$ ". The tapped holes in the center are made to restore or clean threads on bolts that have become bruised or battered. The openings are not intended to be used for cutting new threads. Vixen Wrenches are drop-forged, ground, polished and hardened. Furnished in U. S. Standard Threads. Length over all,  $7\frac{3}{4}$ ".

**U. S. STANDARD THREADS**  $\frac{1}{8}$ -18,  $\frac{1}{4}$ -13,  $\frac{3}{8}$ -16

Finish	Weight per doz.	Price per doz.
Blue	11 lbs.	\$5.00

## ALWAYS READY WRENCHES

**DROP FORGED**



**Black**

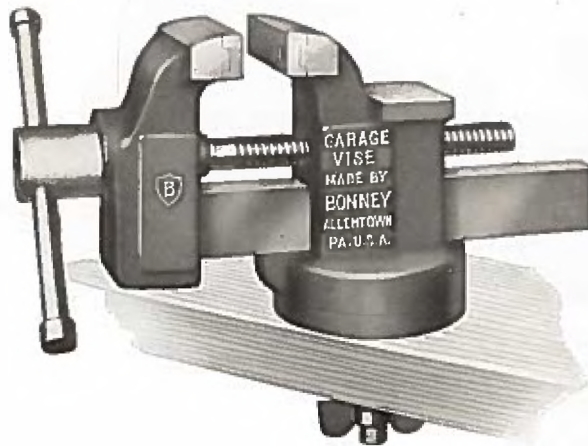
These wrenches are drop-forged from special wrench steel, are carefully ground and polished and are hardened to withstand the severest strain. They have a large range of openings and for their compactness are very handy pocket tools.

No.	Length	Holds Pipe	Wt. per doz.	Price per doz.
1	$5\frac{1}{2}$ in.	$\frac{1}{2}$ to $\frac{3}{4}$	6 lbs.	\$ 4.50
2	7 "	$\frac{1}{2}$ " $1\frac{1}{2}$	11 "	6.25
2½	9½ "	$\frac{1}{2}$ " $1\frac{1}{2}$	25 "	10.00
3	11 "	$\frac{1}{2}$ " $1\frac{1}{2}$	37 "	15.25

Packed  $\frac{1}{2}$  doz. in cardboard box.



## BONNEY GARAGE VISES



There has been a steady demand for a heavy, strong, well-made Garage Vise at a moderate price. We have designed these vises to meet these specifications and have found, by test, that they will answer the requirements of the most exacting in quality, fit and finish. The jaws are heavy, reinforced gray iron castings, with hardened tool steel removable faces. The screws are steel machine threaded, and the slides are cold rolled steel.

These vises have a swivel base which can be adjusted and locked in any position. The parts are interchangeable, and the vises thoroughly warranted.

Made in two sizes.

### No. 830

Width of jaw.....	3 inches
Opens.....	3½ "
Weight.....	18 lbs.
Price.....	\$7.50 each

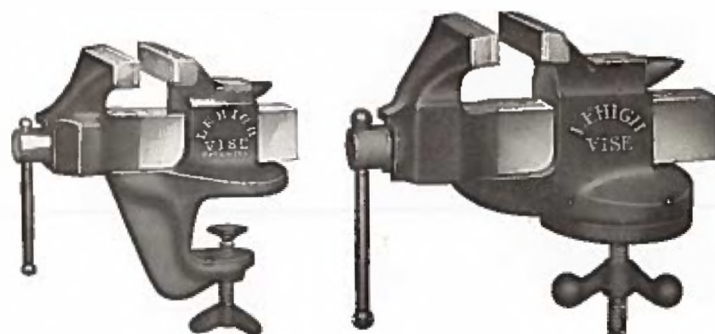
### No. 840

Width of jaw.....	4 inches
Opens.....	4½ "
Weight.....	38 lbs.
Price.....	\$15.00 each

Packed in Individual Shipping Containers



## BONNEY LEHIGH VISES



CLAMP BASE PATENTED

Bonney Lehigh Vises are manufactured along the same general lines as the heavy type of Machinists' Box Slide Vises. They are small in size and designed particularly for tool makers, jig makers, die sinkers, jewelers and all practical mechanics. Because of the heavy construction, firmness, stability and high duty gripping power, they are particularly recommended for delicate and precision work.

No sacrifices have been made in weight where metal should be used to increase the strength and rigidity. The jaws are heavy, and the anvil has a good striking surface. The main screw is strongly made from bar steel, lathe threaded. The clamp is protected with a ball and socket cap (a patented feature with us), and a good thread screw.

Lehigh Vises are made both with iron jaws and steel inserted jaws. The steel inserts are particularly strong and heavy, and are carefully hardened. The finish of the Vises is dark green enamel, with the jaws, screws, slides and anvil highly polished.

No.	Description	Size of Jaw	Weight each	Price each
1006...	Plain Iron Jaws, Clamp Base ....	1½ in. ....	3 lbs. ....	\$1.50
1007...	Plain Iron Jaws, Clamp Base ....	1¾ " ....	3½ " ....	1.75
1008...	Plain Iron Jaws, Clamp Base ....	2 " ....	4 " ....	2.25
1010...	Plain Iron Jaws, Clamp Base ....	2½ " ....	5½ " ....	3.25
1012...	Plain Iron Jaws, Clamp Base ....	3 " ....	6½ " ....	4.75
1107...	Hardened Steel Jaws, Clamp Base	1¾ " ....	3½ " ....	2.25
1108...	Hardened Steel Jaws, Clamp Base	2 " ....	4 " ....	2.75
1110...	Hardened Steel Jaws, Clamp Base	2½ " ....	5½ " ....	4.00
1112...	Hardened Steel Jaws, Clamp Base	3 " ....	6½ " ....	5.50
1210...	Hardened Steel Jaws, Swivel Base	2½ " ....	6 " ....	4.00
1212...	Hardened Steel Jaws, Swivel Base	3 " ....	10½ " ....	5.50

For Lehigh Vise Assortments see page opposite



## LEHIGH VISE ASSORTMENTS



ASSORTMENT No. 1000

Quantity	No.	Description	Jaw	Weight, Each	Price
2	1006	Iron Jaw	1½"	3 lbs.	\$3.00
4	1007	Iron Jaw	1¾"	3½ "	7.00
4	1008	Iron Jaw	2"	4 "	9.00
3	1010	Iron Jaw	2½"	5½ "	9.75
1	1012	Iron Jaw	3"	9½ "	4.75
		Sample Stand			1.50
Weight, 70 lbs.		List—Total			\$35.00

### ASSORTMENT No. 1000A

This Lehigh Vise Assortment is made up of the above assortment and in addition contains eight vises of four numbers with steel jaws. This assortment also contains two of the larger numbers with steel jaws and swivel base.

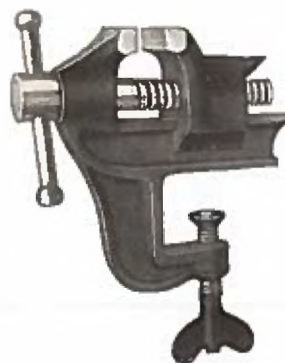
The sample stand with this assortment is larger than the one shown above with the 1000 assortment.

### No. 1000A

Quantity	No.	Description	Jaw	Weight, Each	Price
2	1006	Iron Jaw	1½"	3 lbs.	\$3.00
4	1007	Iron Jaw	1¾"	3½ "	7.00
4	1008	Iron Jaw	2"	4 "	9.00
3	1010	Iron Jaw	2½"	5½ "	9.75
1	1012	Iron Jaw	3"	9½ "	4.75
2	1107	Steel Jaw	1¾"	3½ "	4.50
3	1108	Steel Jaw	2"	4 "	8.25
1	1110	Steel Jaw	2½"	5½ "	4.00
2	1112	Steel Jaw	3"	9½ "	11.00
1	1210	Steel Jaw			
		& Swivel Base	2½"	6 "	4.00
1	1212	Steel Jaw			
		& Swivel Base	3"	10½ "	5.50
		Sample Stand			1.75
Weight, 130 lbs.		List—Total			\$72.50

For description of Lehigh Vises see opposite page





## BONNEY STANDARD VISES

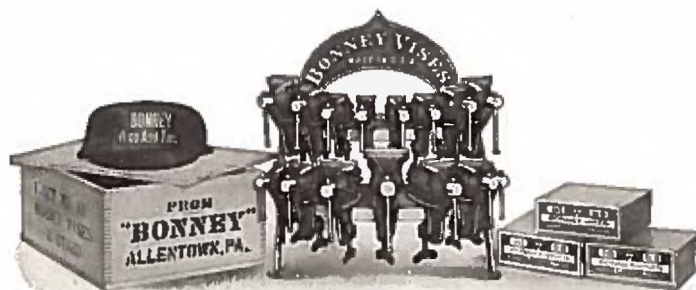
Bonney Standard Vises are made for light uses where an inexpensive tool will answer the purpose. The jaws are made of the best grade of gray iron carefully ground to fit and machined. Both the main screw and thumb screw are machine threaded. The finish is very attractive in black enamel with polished screw jaws and anvil.

The best cheap vise on the market.  
Made in four sizes.

### LIST PRICE

No.	Description	Size of Jaw	Weight, Each	Price, Each
00	Iron Jaws	1"	1 lb.	\$0.60
01	Iron Jaws	1½"	1½ "	.75
02	Iron Jaws	2"	2½ "	1.00
02½	Iron Jaws	2½"	4 "	1.75

### SET No. 10



### LIST PRICE SET No. 10

Quantity	No.	Description	Size of Jaw	Weight, Each	Price
6	00	Iron Jaws	1"	1 lb.	\$3.60
6	01	Iron Jaws	1½"	1½ "	4.50
3	02	Iron Jaws	2"	2½ "	3.00
2	02½	Iron Jaws	2½"	4 "	3.50
		Sample Stand			1.40
		Sample Stand and 17 Vises			\$16.00





**BONNEY**  
**BODY IRON ASSORTMENT**  
**No. 1, F. T. B.**



**Contents of  
each box:**

**Tail Gate Hooks, Tail Gate  
Eyes, Hinges, Braces, Flare  
Irons, Bushings, Machine  
Bolts, Carriage Bolts,  
Screws, Washers.**

A convenient, economical and handy method of building a small truck body through the use of the Bonney Body Iron Assortment No. 1, F. T. B. Each package contains all necessary irons, bolts, screws, nuts, washers, etc., to erect the completed body as shown in the lower left-hand corner of the page, also a bill of material of the lumber required, and a manual giving complete instructions and diagrams, so simple that the amateur can build the body without any difficulty. The manual covers the construction of a slip-on body for a Ford Roadster but the dimensions may be so changed or varied that these same parts may be used equally well for a body for any car. The package is ready for reshipment.

Very few customers for truck body irons know just what they want, and much time and effort is wasted by dealers' clerks in attempting to furnish this information. Dealers who have frequent calls for miscellaneous body irons will appreciate the convenience of handing over a complete package. This assortment contains every bit of metal required. The wood, about 33 feet, can be secured locally. The only tools needed are saw, plane, bit, brace, three bits, wrench, screw driver and foot rule.

**Price, \$6.00.**

**Weight, complete, 16½ lbs. Save the excessive freight on made-up bodies.**

## INDEX

### WRENCHES

	Pages
Adjustable "S" Wrenches . . . . .	36
Always Ready Wrenches . . . . .	42
Automobile Wrenches . . . . .	37
Combination Pipe and Nut Wrenches . . . . .	38
Crocodile (Alligator) Wrenches . . . . .	40-41
Drop Forged Wrenches . . . . .	5-31
Drop Forged Wrenches (Chrome Vanadium) . . . . .	32-33
Finishes of Drop Forged Wrenches . . . . .	5
Screw (Monkey) Wrenches . . . . .	37
Sets of Wrenches for Automobile Use . . . . .	27-31
Stillson Wrenches . . . . .	34-35
Thin (Stamped Steel) Wrenches . . . . .	29
Tappet Wrenches . . . . .	28, 33
Vixen Wrenches . . . . .	42
Wrench Assortments . . . . .	22-26

### VICES

Garage Vises . . . . .	43-44
Lehigh Vises . . . . .	44
Lehigh Vise Assortments . . . . .	45
Standard Vises . . . . .	46
Standard Vise Assortments . . . . .	46

### MISCELLANEOUS

Battery Pliers . . . . .	39
Body Iron Assortment . . . . .	47
Combination Pliers . . . . .	39



